

<210> 1439
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1439
 Met Ser Leu Thr Ile Trp Thr Val Cys Gly Val Leu Ser Leu Phe Gly
 1 5 10 15
 Ala Leu Ser Tyr Ala Glu Leu Gly Thr Thr Ile Lys Lys Ser Gly Gly
 20 25 30
 His Tyr Thr Tyr Ile Leu Glu Val Phe Gly Pro Leu Pro Ala Phe Val
 35 40 45
 Arg Val Trp Val Glu Leu Leu Ile Ile Arg Pro Ala Ala Thr Ala Val
 50 55 60
 Ile Ser Leu Ala Phe Gly Arg Tyr Ile Leu Glu Pro Phe Phe Ile Gln
 65 70 75 80
 Cys Glu Ile Pro Glu Leu Ala Ile Lys Leu Ile Thr Ala Val Gly Ile
 85 90 95
 Thr Val Val Met Val Leu Asn Ser Met Ser Val Ser Trp Ser Ala Arg
 100 105 110
 Ile Gln Ile Phe Leu Thr Phe Cys Lys Leu Thr Ala Ile Leu Ile Ile
 115 120 125
 Ile Val Pro Gly Val Met Gln Leu Ile Lys Gly Gln Thr Gln Asn Phe
 130 135 140
 Lys Asp Ala Phe Ser Gly Arg Asp Ser Ser Ile Thr Arg Leu Pro Leu
 145 150 155 160
 Ala Phe Tyr Tyr Gly Met Tyr Ala Tyr Ala Gly Trp Phe Tyr Leu Asn
 165 170 175
 Phe Val Thr Glu Glu Val Glu Asn Pro Glu Lys Thr Ile Pro Leu Ala
 180 185 190
 Ile Cys Ile Ser Met Ala Ile Val Thr Ile Gly Tyr Val Leu Thr Asn
 195 200 205
 Val Ala Tyr Phe Thr Thr Ile Asn Ala Glu Glu Leu Leu Leu Ser Asn
 210 215 220
 Ala Val Ala Val Thr Phe Ser Glu Arg Leu Leu Gly Asn Phe Ser Leu
 225 230 235 240
 Ala Val Pro Ile Phe Val Ala Leu Ser Cys Phe Gly Ser Met Asn Gly
 245 250 255
 Gly Val Phe Ala Val Ser Arg Leu Phe Tyr Val Ala Ser Arg Glu Gly
 260 265 270
 His Leu Pro Glu Ile Leu Ser Met Ile His Val Arg Lys His Thr Pro
 275 280 285
 Leu Pro Ala Val Ile Val Leu His Pro Leu Thr Met Ile Met Leu Phe
 290 295 300
 Ser Gly Asp Leu Asp Ser Leu Leu Asn Phe Leu Ser Phe Ala Arg Trp
 305 310 315 320
 Leu Phe Ile Gly Leu Ala Val Ala Gly Leu Ile Tyr Leu Arg Tyr Lys
 325 330 335
 Cys Pro Asp Met His Arg Pro Phe Lys Val Pro Leu Phe Ile Pro Ala
 340 345 350
 Leu Phe Ser Phe Thr Cys Leu Phe Met Val Ala Leu Ser Leu Tyr Ser
 355 360 365
 Asp Pro Phe Ser Thr Gly Ile Gly Phe Val Ile Thr Leu Thr Gly Val
 370 375 380
 Pro Ala Tyr Tyr Leu Phe Ile Ile Trp Asp Lys Lys Pro Arg Trp Phe
 385 390 395 400

Arg Ile Met Ser Glu Lys Ile Thr Arg Thr Leu Gln Ile Ile Leu Glu
 405 410 415
 Val Val Pro Glu Glu Asp Lys Leu *
 420 424

<210> 1440
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1440
 Met Ser Val Phe Trp Gly Phe Val Gly Phe Leu Val Pro Trp Phe Ile
 1 5 10 15
 Pro Lys Gly Pro Asn Arg Gly Val Ile Ile Thr Met Leu Val Thr Cys
 20 25 30
 Ser Val Cys Cys Tyr Leu Phe Trp Leu Ile Ala Ile Leu Ala Gln Leu
 35 40 45
 Asn Pro Leu Phe Gly Pro Gln Leu Lys Asn Glu Thr Ile Trp Tyr Leu
 50 55 60
 Lys Tyr His Trp Pro *
 65 69

<210> 1441
 <211> 1691
 <212> PRT
 <213> Homo sapiens

<400> 1441
 Met Trp Ser Leu His Ile Val Leu Met Arg Cys Ser Phe Arg Leu Thr
 1 5 10 15
 Lys Ser Leu Ala Thr Gly Pro Trp Ser Leu Ile Leu Ile Leu Phe Ser
 20 25 30
 Val Gln Tyr Val Tyr Gly Ser Gly Lys Lys Tyr Ile Gly Pro Cys Gly
 35 40 45
 Gly Arg Asp Cys Ser Val Cys His Cys Val Pro Glu Lys Gly Ser Arg
 50 55 60
 Gly Pro Pro Gly Pro Pro Gly Pro Gln Gly Pro Ile Gly Pro Leu Gly
 65 70 75 80
 Ala Pro Gly Pro Ile Gly Leu Ser Gly Glu Lys Gly Met Arg Gly Asp
 85 90 95
 Arg Gly Pro Pro Gly Ala Ala Gly Asp Lys Gly Asp Lys Gly Pro Thr
 100 105 110
 Gly Val Pro Gly Phe Pro Gly Leu Asp Gly Ile Pro Gly His Pro Gly
 115 120 125
 Pro Pro Gly Pro Arg Gly Lys Pro Gly Met Ser Gly His Asn Gly Ser
 130 135 140
 Arg Gly Asp Pro Gly Phe Pro Gly Gly Arg Gly Ala Leu Gly Pro Gly
 145 150 155 160
 Gly Pro Leu Gly His Pro Gly Glu Lys Gly Glu Lys Gly Asn Ser Val
 165 170 175
 Phe Ile Leu Gly Ala Val Lys Gly Ile Gln Gly Asp Arg Gly Asp Pro
 180 185 190
 Gly Leu Pro Gly Leu Pro Gly Ser Trp Gly Ala Gly Gly Pro Ala Gly

		195						200						205				
Pro	Thr	Gly	Tyr	Pro	Gly	Glu	Pro	Gly	Leu	Val	Gly	Pro	Pro	Gly	Gln			
	210					215					220							
Pro	Gly	Arg	Pro	Gly	Leu	Lys	Gly	Asn	Pro	Gly	Val	Gly	Val	Lys	Gly			
225					230					235					240			
Gln	Met	Gly	Asp	Pro	Gly	Glu	Val	Gly	Gln	Gly	Ser	Pro	Gly	Pro				
				245					250					255				
Thr	Leu	Leu	Val	Glu	Pro	Pro	Asp	Phe	Cys	Leu	Tyr	Lys	Gly	Glu	Lys			
			260					265					270					
Gly	Ile	Lys	Gly	Ile	Pro	Gly	Met	Val	Gly	Leu	Pro	Gly	Pro	Pro	Gly			
	275					280						285						
Arg	Lys	Gly	Glu	Ser	Gly	Ile	Gly	Ala	Lys	Gly	Glu	Lys	Gly	Ile	Pro			
	290					295					300							
Gly	Phe	Pro	Gly	Pro	Arg	Gly	Asp	Pro	Gly	Ser	Tyr	Gly	Ser	Pro	Gly			
305					310					315					320			
Phe	Pro	Gly	Leu	Lys	Gly	Glu	Leu	Gly	Leu	Val	Gly	Asp	Pro	Gly	Leu			
				325					330					335				
Phe	Gly	Leu	Ile	Gly	Pro	Lys	Gly	Asp	Pro	Gly	Asn	Arg	Gly	His	Pro			
			340					345				350						
Gly	Pro	Pro	Gly	Val	Leu	Val	Thr	Pro	Pro	Leu	Pro	Leu	Lys	Gly	Pro			
	355						360					365						
Pro	Gly	Asp	Pro	Gly	Phe	Pro	Gly	Arg	Tyr	Gly	Glu	Thr	Gly	Asp	Val			
	370					375					380							
Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Leu	Gly	Arg	Pro	Gly	Glu	Ala	Cys			
385					390					395					400			
Ala	Gly	Met	Ile	Gly	Pro	Pro	Gly	Pro	Gln	Gly	Phe	Pro	Gly	Leu	Pro			
				405					410					415				
Gly	Leu	Pro	Gly	Glu	Ala	Gly	Ile	Pro	Gly	Arg	Pro	Asp	Ser	Ala	Pro			
			420					425				430						
Gly	Lys	Pro	Gly	Lys	Pro	Gly	Ser	Pro	Gly	Leu	Pro	Gly	Ala	Pro	Gly			
	435						440					445						
Leu	Gln	Gly	Leu	Pro	Gly	Ser	Ser	Val	Ile	Tyr	Cys	Ser	Val	Gly	Asn			
	450					455					460							
Pro	Gly	Pro	Gln	Gly	Ile	Lys	Gly	Lys	Val	Gly	Pro	Pro	Gly	Gly	Arg			
465					470				475						480			
Gly	Pro	Lys	Gly	Glu	Lys	Gly	Asn	Glu	Gly	Leu	Cys	Ala	Cys	Glu	Pro			
				485					490					495				
Gly	Pro	Met	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Leu	Pro	Gly	Arg	Gln	Gly			
			500					505					510					
Ser	Lys	Gly	Asp	Leu	Gly	Leu	Pro	Gly	Trp	Leu	Gly	Thr	Lys	Gly	Asp			
	515						520					525						
Pro	Gly	Pro	Pro	Gly	Ala	Glu	Gly	Pro	Pro	Gly	Leu	Pro	Gly	Lys	His			
	530					535					540							
Gly	Ala	Ser	Gly	Pro	Pro	Gly	Asn	Lys	Gly	Ala	Lys	Gly	Asp	Met	Val			
545					550					555					560			
Val																		

Pro Gly Arg His Gly Pro Pro Gly Phe Asp Gly Pro Pro Gly Pro Lys
 675 680 685
 Gly Phe Pro Gly Pro Gln Gly Ala Pro Gly Leu Ser Gly Ser Asp Gly
 690 695 700
 His Lys Gly Arg Pro Gly Thr Pro Gly Thr Ala Glu Ile Pro Gly Pro
 705 710 715 720
 Pro Gly Phe Arg Gly Asp Met Gly Asp Pro Gly Phe Gly Gly Glu Lys
 725 730 735
 Gly Ser Ser Pro Val Gly Pro Pro Gly Pro Pro Gly Ser Pro Gly Val
 740 745 750
 Asn Gly Gln Lys Gly Ile Pro Gly Asp Pro Ala Phe Gly His Leu Gly
 755 760 765
 Pro Pro Gly Lys Arg Gly Leu Ser Gly Val Pro Gly Ile Lys Gly Pro
 770 775 780
 Arg Gly Asp Pro Gly Cys Pro Gly Ala Glu Gly Pro Ala Gly Ile Pro
 785 790 795 800
 Gly Phe Leu Gly Leu Lys Gly Pro Lys Gly Arg Glu Gly His Ala Gly
 805 810 815
 Phe Pro Gly Val Pro Gly Pro Pro Gly His Ser Cys Glu Arg Gly Ala
 820 825 830
 Pro Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Tyr Pro Gly Ser Pro
 835 840 845
 Gly Ala Pro Gly Gly Lys Gly Gln Pro Gly Asp Val Gly Pro Pro Gly
 850 855 860
 Pro Ala Gly Met Lys Gly Leu Pro Gly Leu Pro Gly Arg Pro Gly Ala
 865 870 875 880
 His Gly Pro Pro Gly Leu Pro Gly Ile Pro Gly Pro Phe Gly Asp Asp
 885 890 895
 Gly Leu Pro Gly Pro Pro Gly Pro Lys Gly Pro Arg Gly Leu Pro Gly
 900 905 910
 Phe Pro Gly Phe Pro Gly Glu Arg Gly Lys Pro Gly Ala Glu Gly Cys
 915 920 925
 Pro Gly Ala Lys Gly Glu Pro Gly Glu Lys Gly Met Ser Gly Leu Pro
 930 935 940
 Gly Asp Arg Gly Leu Arg Gly Ala Lys Gly Ala Ile Gly Pro Pro Gly
 945 950 955 960
 Asp Glu Gly Glu Met Ala Ile Ile Ser Gln Lys Gly Thr Pro Gly Glu
 965 970 975
 Pro Gly Pro Pro Gly Asp Asp Gly Phe Pro Gly Glu Arg Gly Asp Lys
 980 985 990
 Gly Thr Pro Gly Met Gln Gly Arg Arg Gly Glu Leu Gly Arg Tyr Gly
 995 1000 1005
 Pro Pro Gly Phe His Arg Gly Glu Pro Gly Glu Lys Gly Gln Pro Gly
 1010 1015 1020
 Pro Pro Gly Pro Pro Gly Pro Pro Gly Ser Thr Gly Leu Arg Gly Phe
 1025 1030 1035 1040
 Ile Gly Phe Pro Gly Leu Pro Gly Asp Gln Gly Glu Pro Gly Ser Pro
 1045 1050 1055
 Gly Pro Pro Gly Phe Ser Gly Ile Asp Gly Ala Arg Gly Pro Lys Gly
 1060 1065 1070
 Asn Lys Gly Asp Pro Ala Ser His Phe Gly Pro Pro Gly Pro Lys Gly
 1075 1080 1085
 Glu Pro Gly Ser Pro Gly Cys Pro Gly His Phe Gly Ala Ser Gly Glu
 1090 1095 1100
 Gln Gly Leu Pro Gly Ile Gln Gly Pro Arg Gly Ser Pro Gly Arg Pro
 1105 1110 1115 1120
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Cys Pro Gly Asp His Gly
 1125 1130 1135
 Met Pro Gly Leu Arg Gly Gln Pro Gly Glu Met Gly Asp Pro Gly Pro

1140 1145 1150
 Arg Gly Leu Gln Gly Asp Pro Gly Ile Pro Gly Pro Pro Gly Ile Lys
 1155 1160 1165
 Gly Pro Ser Gly Ser Pro Gly Leu Asn Gly Leu His Gly Leu Lys Gly
 1170 1175 1180
 Gln Lys Gly Thr Lys Gly Ala Ser Gly Leu His Asp Val Gly Pro Pro
 1185 1190 1195 1200
 Gly Pro Val Gly Ile Pro Gly Leu Lys Gly Glu Arg Gly Asp Pro Gly
 1205 1210 1215
 Ser Pro Gly Ile Ser Pro Pro Gly Pro Arg Gly Lys Lys Gly Pro Pro
 1220 1225 1230
 Gly Pro Pro Gly Ser Ser Gly Pro Pro Gly Pro Ala Gly Ala Thr Gly
 1235 1240 1245
 Arg Ala Pro Lys Asp Ile Pro Asp Pro Gly Pro Pro Gly Asp Gln Gly
 1250 1255 1260
 Pro Pro Gly Pro Asp Gly Pro Arg Gly Ala Pro Gly Pro Pro Gly Leu
 1265 1270 1275 1280
 Pro Gly Ser Val Asp Leu Leu Arg Gly Glu Pro Gly Asp Cys Gly Leu
 1285 1290 1295
 Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Tyr Lys
 1300 1305 1310
 Gly Phe Pro Gly Cys Asp Gly Lys Asp Gly Gln Lys Gly Pro Val Gly
 1315 1320 1325
 Phe Pro Gly Pro Gln Gly Pro His Gly Phe Pro Gly Pro Pro Gly Glu
 1330 1335 1340
 Lys Gly Leu Pro Gly Pro Gly Arg Lys Gly Pro Thr Gly Leu Pro
 1345 1350 1355 1360
 Gly Pro Arg Gly Glu Pro Gly Pro Pro Ala Asp Val Asp Asp Cys Pro
 1365 1370 1375
 Arg Ile Pro Gly Leu Pro Gly Ala Pro Gly Met Arg Gly Pro Glu Gly
 1380 1385 1390
 Ala Met Gly Leu Pro Gly Met Arg Gly Pro Ser Gly Pro Gly Cys Lys
 1395 1400 1405
 Gly Glu Pro Gly Leu Asp Gly Arg Arg Gly Val Asp Gly Val Pro Gly
 1410 1415 1420
 Ser Pro Gly Pro Pro Gly Arg Lys Gly Asp Thr Gly Glu Asp Gly Tyr
 1425 1430 1435 1440
 Pro Gly Gly Pro Gly Pro Pro Gly Pro Ile Gly Asp Pro Gly Pro Lys
 1445 1450 1455
 Gly Phe Gly Pro Gly Tyr Leu Gly Gly Phe Leu Leu Val Leu His Ser
 1460 1465 1470
 Gln Thr Asp Gln Glu Pro Thr Cys Pro Leu Gly Met Pro Arg Leu Trp
 1475 1480 1485
 Thr Gly Tyr Ser Leu Leu Tyr Leu Glu Gly Gln Glu Lys Ala His Asn
 1490 1495 1500
 Gln Asp Leu Gly Leu Ala Gly Ser Cys Leu Pro Val Phe Ser Thr Leu
 1505 1510 1515 1520
 Pro Phe Ala Tyr Cys Asn Ile His Gln Val Cys His Tyr Ala Gln Arg
 1525 1530 1535
 Asn Asp Arg Ser Tyr Trp Leu Ala Ser Ala Ala Pro Leu Pro Met Met
 1540 1545 1550
 Pro Leu Ser Glu Glu Ala Ile Arg Pro Tyr Val Ser Arg Cys Ala Val
 1555 1560 1565
 Cys Glu Ala Pro Ala Gln Ala Val Ala Val His Ser Gln Asp Gln Ser
 1570 1575 1580
 Ile Pro Pro Cys Pro Gln Thr Trp Arg Ser Leu Trp Ile Gly Tyr Ser
 1585 1590 1595 1600
 Phe Leu Met His Thr Gly Ala Gly Asp Gln Gly Gly Gly Gln Ala Leu
 1605 1610 1615

Met Ser Pro Gly Ser Cys Leu Glu Asp Phe Arg Ala Ala Pro Phe Leu
 1620 1625 1630
 Glu Cys Gln Gly Arg Gln Gly Thr Cys His Phe Phe Ala Asn Lys Tyr
 1635 1640 1645
 Ser Phe Trp Leu Thr Thr Val Lys Ala Asp Phe Glu Phe Ser Ser Ala
 1650 1655 1660
 Pro Ala Pro Asp Thr Leu Lys Glu Ser Gln Ala Gln Arg Gln Lys Ile
 1665 1670 1675 1680
 Ser Arg Cys Gln Val Cys Val Lys Tyr Ser *
 1685 1690

<210> 1442
 <211> 153
 <212> PRT
 <213> Homo sapiens

<400> 1442
 Met Gly Val Met Ala Pro Arg Thr Leu Leu Leu Leu Leu Gly Ala
 1 5 10 15
 Leu Ala Leu Thr Glu Thr Trp Ala Gly Glu Cys Gly Val Gly Arg Glu
 20 25 30
 Arg Ala Ser Ala Gly Arg Ser Glu Trp Pro Ala Arg Pro Gly Glu Pro
 35 40 45
 Arg Arg Glu Glu Gly Arg Ala Gly Leu Ser Leu Ser Ser Pro Pro Gly
 50 55 60
 Ser His Ser Leu Arg Tyr Phe Ser Thr Ala Val Ser Gln Pro Gly Arg
 65 70 75 80
 Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr Val Asp Asp Thr Glu Phe
 85 90 95
 Val Arg Phe Asp Ser Asp Ser Val Ser Pro Arg Met Glu Arg Arg Ala
 100 105 110
 Pro Trp Val Glu Gln Glu Gly Leu Glu Tyr Trp Asp Gln Glu Thr Arg
 115 120 125
 Asn Ala Lys Gly His Ala Gln Ile Tyr Arg Val Asn Leu Arg Thr Leu
 130 135 140
 Leu Arg Tyr Tyr Asn Gln Ser Glu Ala
 145 150 153

<210> 1443
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1443
 Met Ser Leu Leu Cys Leu Lys Phe Phe Ser Gly Leu Trp Thr Ile Thr
 1 5 10 15
 Phe Ser Lys Gly Ala Lys Ile Ile His Trp Gly Arg Ser Leu Phe Asn
 20 25 30
 Trp Ile Ser Met Cys Lys Arg Met Lys Leu Asp Pro Tyr Ser Tyr His
 35 40 45
 Thr Gln Lys Leu Thr Gln Asn Gly Ser *
 50 55 57

<210> 1444
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1444
 Met Pro Val Pro Leu Ala Tyr Phe Gln Ser Ser Ile Val Leu Phe Pro
 1 5 10 15
 Leu Ile Phe Ser Leu Val Thr Cys Val Ser Leu Asp Gly Glu Pro Lys
 20 25 30
 Ser Val Val Gly Val Ile Ser Ile Ser Ala Tyr Tyr Arg Ala Ile Ser
 35 40 45
 Ile Leu Leu Ile Phe Ser Lys Ser Phe Cys Cys Ala Ser Leu Ala Gly
 50 55 60
 Val Leu Val Ile *
 65 68

<210> 1445
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 1445
 Met Gly Trp Leu Cys Ser Gly Leu Leu Phe Pro Val Ser Cys Leu Val
 1 5 10 15
 Leu Leu Gln Val Ala Ser Ser Gly Asn Met Lys Val Leu Gln Glu Pro
 20 25 30
 Thr Cys Val Ser Asp Tyr Met Ser Ile Ser Thr Cys Glu Trp Lys Met
 35 40 45
 Asn Gly Pro Thr Asn Cys Ser Thr Glu Leu Arg Leu Leu Tyr Gln Leu
 50 55 60
 Val Phe Leu Leu Ser Glu Ala His Thr Cys Val Pro Glu Asn Asn Gly
 65 70 75 80
 Gly Ala Gly Cys Val Cys His Leu Leu Met Asp Asp Val Val Ser Ala
 85 90 95
 Asp Asn Tyr Thr Leu Asp Leu Trp Ala Gly Gln Gln Leu Leu Trp Lys
 100 105 110
 Gly Ser Phe Lys Pro Ser Glu His Val Lys Pro Arg Ala Pro Gly Asn
 115 120 125
 Leu Thr Val His Thr Asn Val Ser Asp Thr Leu Leu Thr Trp Ser
 130 135 140
 Asn Pro Tyr Pro Pro Asp Asn Tyr Leu Tyr Asn His Leu Thr Tyr Ala
 145 150 155 160
 Val Asn Ile Trp Ser Glu Asn Asp Pro Ala Asp Phe Arg Ile Tyr Asn
 165 170 175
 Val Thr Tyr Leu Glu Pro Ser Leu Arg Ile Ala Ala Ser Thr Leu Lys
 180 185 190
 Ser Gly Ile Ser Tyr Arg Ala Arg Val Arg Ala Trp Ala Gln Cys Tyr
 195 200 205
 Asn Thr Thr Trp Ser Glu Trp Ser Pro Ser Thr Lys Trp His Asn Ser
 210 215 220
 Tyr Arg Glu Pro Phe Glu Gln His Leu Leu Leu Gly Val Ser Val Ser
 225 230 235 240

Cys Ile Val Ile Leu Ala Val Cys Leu Leu Cys Tyr Val Ser Ile Thr
 245 250 255
 Lys Ile Lys Lys Glu Trp Trp Asp Gln Ile Pro Asn Pro Ala Arg Ser
 260 265 270
 Arg Leu Val Ala Ile Ile Ile Gln Asp Ala Gln Gly Ser Gln Trp Glu
 275 280 285
 Lys Arg Ser Arg Gly Gln Glu Pro Ala Lys Cys Pro His Trp Lys Asn
 290 295 300
 Cys Leu Thr Lys Leu Leu Pro Cys Phe Leu Glu His Asn Met Lys Arg
 305 310 315 320
 Asp Glu Asp Pro His Lys Ala Ala Lys Glu Met Pro Phe Gln Gly Ser
 325 330 335
 Gly Lys Ser Ala Trp Cys Pro Val Glu Ile Ser Lys Thr Val Leu Trp
 340 345 350
 Pro Glu Ser Ile Ser Val Val Arg Cys Val Glu Leu Phe Glu Ala Pro
 355 360 365
 Val Glu Cys Glu Glu Glu Glu Glu Val Glu Glu Glu Lys Gly Ser Phe
 370 375 380
 Cys Ala Ser Pro Glu Ser Ser Arg Asp Asp Phe Gln Glu Gly Arg Glu
 385 390 395 400
 Gly Ile Val Ala Arg Leu Thr Glu Ser Leu Phe Leu Asp Leu Leu Gly
 405 410 415
 Glu Glu Asn Gly Gly Phe Cys Gln Gln Asp Met Gly Glu Ser Cys Leu
 420 425 430
 Leu Pro Pro Ser Gly Ser Thr Ser Ala His Met Pro Trp Asp Glu Phe
 435 440 445
 Pro Ser Ala Gly Pro Lys Glu Ala Pro Pro Trp Gly Lys Glu Gln Pro
 450 455 460
 Leu His Leu Glu Pro Ser Pro Pro Ala Ser Pro Thr Gln Ser Pro Asp
 465 470 475 480
 Asn Leu Thr Cys Thr Glu Thr Pro Leu Val Ile Ala Gly Asn Pro Ala
 485 490 495
 Tyr Arg Ser Phe Ser Asn Ser Leu Ser Gln Ser Pro Cys Pro Arg Glu
 500 505 510
 Leu Gly Pro Asp Pro Leu Leu Ala Arg His Leu Glu Glu Val Glu Pro
 515 520 525
 Glu Met Pro Cys Val Pro Gln Leu Ser Glu Pro Thr Thr Val Pro Gln
 530 535 540
 Pro Glu Pro Glu Thr Trp Glu Gln Ile Leu Arg Arg Asn Val Leu Gln
 545 550 555 560
 His Gly Ala Ala Ala Pro Val Ser Ala Pro Thr Ser Gly Tyr Gln
 565 570 575
 Glu Phe Val His Ala Val Glu Gln Gly Gly Thr Gln Ala Ser Ala Val
 580 585 590
 Val Gly Leu Gly Pro Pro Gly Glu Ala Gly Tyr Lys Ala Phe Ser Ser
 595 600 605
 Leu Leu Ala Ser Ser Ala Val Ser Pro Glu Lys Cys Gly Phe Gly Ala
 610 615 620
 Ser Ser Gly Glu Glu Gly Tyr Lys Pro Phe Gln Asp Leu Ile Pro Gly
 625 630 635 640
 Cys Pro Gly Asp Pro Ala Pro Val Pro Val Pro Leu Phe Thr Phe Gly
 645 650 655
 Leu Asp Arg Glu Pro Pro Arg Ser Pro Gln Ser Ser His Leu Pro Ser
 660 665 670
 Ser Ser Pro Glu His Leu Gly Leu Glu Pro Gly Glu Lys Val Glu Asp
 675 680 685
 Met Pro Lys Pro Pro Leu Pro Gln Glu Gln Ala Thr Asp Pro Leu Val
 690 695 700
 Asp Ser Leu Gly Ser Gly Ile Val Tyr Ser Ala Leu Thr Cys His Leu

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705              710              715              720
Cys Gly His Leu Lys Gln Cys His Gly Gln Glu Asp Gly Gly Gln Thr
              725              730              735
Pro Val Met Ala Ser Pro Cys Cys Gly Cys Cys Cys Gly Asp Arg Ala
              740              745              750
Ser Pro Pro Thr Thr Pro Leu Arg Ala Pro Asp Pro Ser Pro Gly Gly
              755              760              765
Val Pro Leu Glu Ala Ser Leu Cys Pro Ala Ser Leu Ala Pro Ser Gly
              770              775              780
Ile Ser Glu Lys Ser Lys Ser Ser Ser Ser Phe His Pro Ala Pro Gly
785              790              795              800
Asn Ala Gln Ser Ser Ser Gln Thr Pro Lys Ile Val Asn Phe Val Ser
              805              810              815
Val Gly Pro Thr Tyr Met Arg Val Ser *
              820              825

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<210> 1446
<211> 367
<212> PRT
<213> Homo sapiens

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<400> 1446
Met Ala Leu Arg Phe Leu Leu Gly Phe Leu Leu Ala Gly Val Asp Leu
 1              5              10              15
Gly Val Tyr Leu Met Arg Leu Glu Leu Cys Asp Pro Thr Gln Arg Leu
              20              25              30
Arg Val Ala Leu Ala Gly Glu Leu Val Gly Val Gly Gly His Phe Leu
              35              40              45
Phe Leu Gly Leu Ala Leu Val Ser Lys Asp Trp Arg Phe Leu Gln Arg
              50              55              60
Met Ile Thr Ala Pro Cys Ile Leu Phe Leu Phe Tyr Gly Trp Pro Gly
              65              70              75              80
Leu Phe Leu Glu Ser Ala Arg Trp Leu Ile Val Lys Arg Gln Ile Glu
              85              90              95
Glu Ala Gln Ser Val Leu Arg Ile Leu Ala Glu Arg Asn Arg Pro His
              100              105              110
Gly Gln Met Leu Gly Glu Glu Ala Gln Glu Ala Leu Gln Asp Leu Glu
              115              120              125
Asn Thr Cys Pro Leu Pro Ala Thr Ser Ser Phe Ser Phe Ala Ser Leu
              130              135              140
Leu Asn Tyr Arg Asn Ile Trp Lys Asn Leu Leu Ile Leu Gly Phe Thr
              145              150              155              160
Asn Phe Ile Ala His Ala Ile Arg His Cys Tyr Gln Pro Val Gly Gly
              165              170              175
Gly Gly Ser Pro Ser Asp Phe Tyr Leu Cys Ser Leu Leu Ala Ser Gly
              180              185              190
Thr Ala Ala Leu Ala Cys Val Phe Leu Gly Val Thr Val Asp Arg Phe
              195              200              205
Gly Arg Arg Gly Ile Leu Leu Leu Ser Met Thr Leu Thr Gly Ile Ala
              210              215              220
Ser Leu Val Leu Leu Gly Leu Trp Asp Tyr Leu Asn Glu Ala Ala Ile
225              230              235              240
Thr Thr Phe Ser Val Leu Gly Leu Phe Ser Ser Gln Ala Ala Ala Ile
              245              250              255
Leu Ser Thr Leu Leu Ala Ala Glu Val Ile Pro Thr Thr Val Arg Gly
              260              265              270

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Arg Gly Leu Gly Leu Ile Met Ala Leu Gly Ala Leu Gly Gly Leu Ser .
      275                280                285
Gly Pro Ala Gln Arg Leu His Met Gly His Gly Ala Phe Leu Gln His
      290                295                300
Val Val Leu Ala Ala Cys Ala Leu Leu Cys Ile Leu Ser Ile Met Leu
      305                310                315                320
Leu Pro Glu Thr Lys Arg Lys Leu Leu Pro Glu Val Leu Arg Asp Gly
      325                330                335
Glu Leu Cys Arg Arg Pro Ser Leu Leu Arg Gln Pro Pro Pro Thr Arg
      340                345                350
Cys Asp His Val Pro Leu Leu Ala Thr Pro Asn Pro Ala Leu *
      355                360                365 366

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<210> 1447
<211> 79
<212> PRT
<213> Homo sapiens

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<400> 1447
Met Ala Ile Ser Trp Leu Gly Thr Trp Leu Leu Gln Ser His Arg His
  1      5      10      15
Trp Ser Glu Pro Gln Leu Cys Arg Leu Pro Ala Arg His His Leu Ile
      20      25      30
Asn Leu Asn Phe Met Val Ala Glu Gly Ile Gly Asp Arg Ala Trp His
      35      40      45
Ile Ile Ser Ala Gln Leu Phe Met Thr Phe Ser Phe His Ala Val Ile
      50      55      60
Leu Gln Thr Asp Leu Gly Glu Ala Gly Lys Tyr Lys Asp Lys *
      65      70      75      78

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<210> 1448
<211> 276
<212> PRT
<213> Homo sapiens

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<400> 1448
Met Val Trp Val Val Leu Leu Ser Leu Leu Cys Tyr Leu Val Leu Phe
  1      5      10      15
Leu Cys Arg His Ser Ser His Arg Gly Val Phe Leu Ser Val Thr Ile
      20      25      30
Leu Ile Tyr Leu Leu Met Gly Glu Met His Met Val Asp Thr Val Thr
      35      40      45
Trp His Lys Met Arg Gly Ala Gln Met Ile Val Ala Met Lys Ala Val
      50      55      60
Ser Leu Gly Phe Asp Leu Asp Arg Gly Glu Val Gly Thr Val Pro Ser
      65      70      75      80
Pro Val Glu Phe Met Gly Tyr Leu Tyr Phe Val Gly Thr Ile Val Phe
      85      90      95
Gly Pro Trp Ile Ser Phe His Ser Tyr Leu Gln Ala Val Gln Gly Arg
      100      105      110
Pro Leu Ser Cys Arg Trp Leu Gln Lys Val Ala Arg Ser Leu Ala Leu
      115      120      125
Ala Leu Leu Cys Leu Val Leu Ser Thr Cys Val Gly Pro Tyr Leu Phe

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      130              135              140
Pro Tyr Phe Ile Pro Leu Asn Gly Asp Arg Leu Leu Arg Lys Trp Leu
145              150              155              160
Arg Ala Tyr Glu Ser Ala Val Ser Phe His Phe Ser Asn Tyr Phe Val
      165              170              175
Gly Phe Leu Ser Glu Ala Thr Ala Thr Leu Ala Gly Ala Gly Phe Thr
      180              185              190
Glu Glu Lys Asp His Leu Glu Trp Asp Leu Thr Val Ser Lys Pro Leu
      195              200              205
Asn Val Glu Leu Pro Arg Ser Met Val Glu Val Val Thr Ser Trp Asn
      210              215              220
Leu Pro Met Ser Tyr Trp Leu Asn Asn Tyr Gly Phe Lys Asn Ala Leu
225              230              235              240
Arg Leu Gly Thr Leu Leu Gly Cys Ala Gly His Leu Cys Ser Gln Arg
      245              250              255
Pro Ser Lys Leu Leu Lys Phe Pro Pro Gly Trp Gly Pro Cys Cys Pro
      260              265              270
Gly Phe Leu *
      275

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<210> 1449
<211> 597
<212> PRT
<213> Homo sapiens

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      <400> 1449
Met Glu Phe Gly Leu Ser Trp Val Phe Leu Val Ala Ile Leu Lys Gly
  1              5              10              15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20              25              30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35              40              45
Ser Ser Tyr Trp Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50              55              60
Val Trp Val Ser Arg Ile Asn Thr Asp Gly Ser Thr Ser Tyr Ala
      65              70              75              80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Lys Asn
      85              90              95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
      100              105              110
Tyr Tyr Cys Ala Arg Ala Asp Asn Cys Ser Ser Thr Ser Cys Tyr Lys
      115              120              125
Cys Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly
      130              135              140
Ser Ala Ser Ala Pro Thr Leu Phe Pro Leu Val Ser Cys Glu Asn Ser
145              150              155              160
Pro Ser Asp Thr Ser Ser Val Ala Val Gly Cys Leu Ala Gln Asp Phe
      165              170              175
Leu Pro Asp Ser Ile Thr Phe Ser Trp Lys Tyr Lys Asn Asn Ser Asp
      180              185              190
Ile Ser Ser Thr Arg Gly Phe Pro Ser Val Leu Arg Gly Gly Lys Tyr
      195              200              205
Ala Ala Thr Ser Gln Val Leu Leu Pro Ser Lys Asp Val Met Gln Gly
      210              215              220
Thr Asp Glu His Val Val Cys Lys Val Gln His Pro Asn Gly Asn Lys
225              230              235              240

```

```
<210> 1450
<211> 276
<212> PRT
<213> Homo sapiens
```

826


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      20      25      30
Glu Pro Cys Val Asn Glu Gly Met Cys Val Thr Tyr His Asn Gly Thr
      35      40      45
Gly Tyr Cys Lys Cys Pro Glu Gly Phe Leu Gly Glu Tyr Cys Gln His
      50      55      60
Arg Asp Pro Cys Glu Lys Asn Arg Cys Gln Asn Gly Gly Thr Cys Val
      65      70      75      80
Ala Gln Ala Met Leu Gly Lys Ala Thr Cys Arg Cys Ala Ser Gly Phe
      85      90      95
Thr Gly Glu Asp Cys Gln Tyr Ser Thr Ser His Pro Cys Phe Val Ser
      100      105      110
Arg Pro Cys Leu Asn Gly Gly Thr Cys His Met Leu Ser Arg Asp Thr
      115      120      125
Tyr Glu Cys Thr Cys Gln Val Gly Phe Thr Gly Lys Glu Cys Gln Trp
      130      135      140
Thr Asp Ala Cys Leu Ser His Pro Cys Ala Asn Gly Ser Thr Cys Thr
      145      150      155      160
Thr Val Ala Asn Gln Phe Ser Cys Lys Cys Leu Thr Gly Phe Thr Gly
      165      170      175
Gln Lys Cys Glu Thr Asp Val Asn Glu Cys Asp Ile Pro Gly His Cys
      180      185      190
Gln His Gly Gly Ile Cys Leu Asn Leu Pro Gly Ser Tyr Gln Cys Gln
      195      200      205
Cys Leu Gln Gly Phe Thr Gly Gln Tyr Cys Asp Ser Leu Tyr Val Pro
      210      215      220
Cys Ala Pro Ser Pro Cys Val Asn Gly Gly Thr Cys Arg Gln Thr Gly
      225      230      235      240
Asp Phe Thr Phe Glu Cys Asn Cys Leu Pro Glu Thr Val Arg Arg Gly
      245      250      255
Thr Glu Leu Trp Glu Arg Asp Arg Glu Val Trp Asn Gly Lys Glu His
      260      265      270
Asp Glu Asn *
      275

```

```

<210> 1451
<211> 121
<212> PRT
<213> Homo sapiens

```

```

      <400> 1451
Met Glu Ser Gly Leu Ser Trp Ile Phe Leu Leu Ala Ile Leu Lys Gly
      1      5      10      15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20      25      30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Arg Phe
      35      40      45
Asp Glu Tyr Gly Met His Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50      55      60
Glu Trp Val Gly Gly Ile Ser Trp Asn Arg Asp Ser Ile Ala Tyr Ala
      65      70      75      80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ala Gln Ser
      85      90      95
Tyr Val Tyr Leu Gln Met Asn Ser Leu Arg His Glu Asp Thr Ala Leu
      100      105      110
Tyr Tyr Cys Thr Lys Leu Arg Ser Ser
      115      120 121

```

<210> 1452
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1452
 Met Glu Arg Gly Asn Ala Leu Val Val Leu Arg Ser Leu Leu Trp Pro
 1 5 10 15
 Gly Leu Thr Phe Tyr His Ala Pro Arg Thr Lys Asn Tyr Gly Tyr Val
 20 25 30
 Tyr Val Gly Thr Gly Glu Lys Asn Met Asp Leu Pro Phe Met Leu *
 35 40 45 47

<210> 1453
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1453
 Met Ile Thr Val Gln Phe Ser Tyr Thr Ala Val Lys Trp Leu Leu Asn
 1 5 10 15
 Cys Phe Val Leu Ile Leu Tyr Val Ile Leu Ser Ile Leu Phe Gln Val
 20 25 30
 Ser Gln Lys Asn Ser Ser Lys Leu Gly Arg Phe Lys Asn Leu Phe Asn
 35 40 45
 His Lys Glu Cys Ser Lys Leu Leu Phe Asn Arg Asn Gln Ala Gln Thr
 50 55 60
 Leu Glu Leu Thr Ala Asp Arg Ile Arg Phe Gly Leu Phe Pro Glu Trp
 65 70 75 80
 Lys His Phe Ser His Thr Thr Ser Leu Cys Thr Ala Lys Met Leu Ala
 85 90 95
 Tyr Pro Leu Trp Phe Pro Ser Phe Ser Leu Ala Ser Gln Arg Asn Leu
 100 105 110
 Pro Pro His Pro Leu Tyr Tyr Ile Phe Tyr *
 115 120 122

<210> 1454
 <211> 327
 <212> PRT
 <213> Homo sapiens

<400> 1454
 Met Arg Glu Trp Trp Val Gln Val Gly Leu Leu Ala Val Pro Leu Leu
 1 5 10 15
 Ala Ala Tyr Leu His Ile Pro Pro Pro Gln Leu Ser Pro Ala Leu His
 20 25 30
 Ser Trp Lys Ser Ser Gly Lys Phe Phe Thr Tyr Lys Gly Leu Arg Ile
 35 40 45
 Phe Tyr Gln Asp Ser Val Gly Val Val Gly Ser Pro Glu Ile Val Val

```

      50              55              60
Leu Leu His Gly Phe Pro Thr Ser Ser Tyr Asp Trp Tyr Lys Ile Trp
 65              70              75              80
Glu Gly Leu Thr Leu Arg Phe His Arg Val Ile Ala Leu Asp Phe Leu
      85              90
Gly Phe Gly Phe Ser Asp Lys Pro Arg Pro His His Tyr Ser Ile Phe
      100              105              110
Glu Gln Ala Ser Ile Val Glu Ala Leu Leu Arg His Leu Gly Leu Gln
      115              120              125
Asn Arg Arg Ile Asn Leu Leu Ser His Asp Tyr Gly Asp Ile Val Ala
      130              135              140
Gln Glu Leu Leu Tyr Arg Tyr Lys Gln Asn Arg Ser Gly Arg Leu Thr
      145              150              155              160
Ile Lys Ser Leu Cys Leu Ser Asn Gly Gly Ile Phe Pro Glu Thr His
      165              170              175
Arg Pro Leu Leu Leu Gln Lys Leu Leu Lys Asp Gly Gly Val Leu Ser
      180              185              190
Pro Ile Leu Thr Arg Leu Met Asn Phe Phe Val Phe Ser Arg Gly Leu
      195              200              205
Thr Pro Val Phe Gly Pro Tyr Thr Arg Pro Ser Glu Ser Glu Leu Trp
      210              215              220
Asp Met Trp Ala Gly Ile Arg Asn Asn Asp Gly Asn Leu Val Ile Asp
      225              230              235              240
Ser Leu Leu Gln Tyr Ile Asn Gln Arg Lys Lys Phe Arg Arg Arg Trp
      245              250              255
Val Gly Ala Leu Ala Ser Val Thr Ile Pro Ile His Phe Ile Tyr Gly
      260              265              270
Pro Leu Asp Pro Val Asn Pro Tyr Pro Glu Phe Leu Glu Leu Tyr Arg
      275              280              285
Lys Thr Leu Pro Arg Ser Thr Val Ser Ile Leu Asp Asp His Ile Ser
      290              295              300
His Tyr Pro Gln Leu Glu Asp Pro Met Gly Phe Leu Asn Ala Tyr Met
      305              310              315              320
Gly Phe Ile Asn Ser Phe *
      325 326

```

```

<210> 1455
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1455
Met Ile Leu Leu Lys Val Cys Ser Ala Ala Ser Leu Leu Gly Glu Gly
 1              5              10              15
Phe Met Asn Gln Val Thr Ser Thr Asn Lys Ala Ser Leu Ser Leu Leu
      20              25              30
Ser Leu Thr Met Lys Val Ala Val Asn Lys Gly Lys Lys Glu Arg Glu
      35              40              45
Leu Phe Ile Pro Phe Gln Phe Gln *
      50              55 56

```

```

<210> 1456
<211> 48
<212> PRT

```

<213> Homo sapiens

<400> 1456

```

Met His Cys Ile Phe Ser Cys Leu Leu Trp Cys Ile Gln Leu Pro Ser
 1          5          10          15
Met Leu Ser Val Leu Lys Thr Gln Pro Ser Lys Asn His Pro Leu Trp
          20          25          30
Pro Cys Lys Tyr Ala Tyr Asn Ile Phe Phe Phe Leu Cys Ile Ile *
          35          40          45          47

```

<210> 1457

<211> 459

<212> PRT

<213> Homo sapiens

<400> 1457

```

Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1          5          10          15
Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
          20          25          30
Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
          35          40          45
Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
          50          55          60
Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
          65          70          75          80
Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
          85          90          95
Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln
          100          105          110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
          115          120          125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
          130          135          140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
          145          150          155          160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
          165          170          175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
          180          185          190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
          195          200          205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
          210          215          220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
          225          230          235          240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
          245          250          255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
          260          265          270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
          275          280          285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
          290          295          300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu

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```

305          310          315          320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
          325          330          335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
          340          345          350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
          355          360          365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
          370          375          380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
385          390          395          400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
          405          410          415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
          420          425          430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
          435          440          445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
          450          455          458

```

```

<210> 1458
<211> 463
<212> PRT
<213> Homo sapiens

```

```

<400> 1458
Met Ala Arg Val Leu Gly Ala Pro Val Ala Leu Gly Leu Trp Ser Leu
 1          5          10          15
Cys Trp Ser Leu Ala Ile Ala Thr Pro Leu Pro Pro Thr Ser Ala His
          20          25          30
Gly Asn Val Ala Glu Gly Glu Thr Lys Pro Asp Pro Asp Val Thr Glu
          35          40          45
Arg Cys Ser Asp Gly Trp Ser Phe Asp Ala Thr Thr Leu Asp Asp Asn
          50          55          60
Gly Thr Met Leu Phe Phe Lys Gly Glu Phe Val Trp Lys Ser His Lys
          65          70          75          80
Trp Asp Arg Glu Leu Ile Ser Glu Arg Trp Lys Asn Phe Pro Ser Pro
          85          90          95
Val Asp Ala Ala Phe Arg Gln Gly His Asn Ser Val Phe Leu Ile Lys
          100          105          110
Gly Asp Lys Val Trp Val Tyr Pro Pro Glu Lys Lys Glu Lys Gly Tyr
          115          120          125
Pro Lys Leu Leu Gln Asp Glu Phe Pro Gly Ile Pro Ser Pro Leu Asp
          130          135          140
Ala Ala Val Glu Cys His Arg Gly Glu Cys Gln Ala Glu Gly Val Leu
145          150          155          160
Phe Phe Gln Gly Asp Arg Glu Trp Phe Trp Asp Leu Ala Thr Gly Thr
          165          170          175
Met Lys Glu Arg Ser Trp Pro Ala Val Gly Asn Cys Ser Ser Ala Leu
          180          185          190
Arg Trp Leu Gly Arg Tyr Tyr Cys Phe Gln Gly Asn Gln Phe Leu Arg
          195          200          205
Phe Asp Pro Val Arg Gly Glu Val Pro Pro Arg Tyr Pro Arg Asp Val
          210          215          220
Arg Asp Tyr Phe Met Pro Cys Pro Gly Arg Gly His Gly His Arg Asn
225          230          235          240

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```
<210> 1459
<211> 187
<212> PRT
<213> Homo sapiens
```

832

165 170 175
 Val Arg Gly Lys Val Ala Val Asp Leu Phe *
 180 185 186

<210> 1460
 <211> 223
 <212> PRT
 <213> Homo sapiens

<400> 1460
 Met Lys Phe Ala Leu Phe Thr Ser Gly Val Ala Leu Thr Leu Ser Phe
 1 5 10 15
 Val Phe Met Tyr Ala Lys Cys Glu Asn Glu Pro Phe Ala Gly Val Ser
 20 25 30
 Glu Ser Tyr Asn Gly Thr Gly Glu Leu Gly Asn Leu Ile Ala Pro Cys
 35 40 45
 Asn Ala Asn Cys Asn Cys Ser Arg Ser Tyr Tyr Tyr Pro Val Cys Gly
 50 55 60
 Asp Gly Val Gln Tyr Phe Ser Pro Cys Phe Ala Gly Cys Ser Asn Pro
 65 70 75 80
 Val Ala His Arg Lys Pro Lys Val Tyr Tyr Asn Cys Ser Cys Ile Glu
 85 90 95
 Arg Lys Thr Glu Ile Thr Ser Thr Ala Glu Thr Phe Gly Phe Glu Ala
 100 105 110
 Asn Ala Gly Lys Cys Glu Thr His Cys Ala Lys Leu Ala Ile Phe Leu
 115 120 125
 Cys Ile Val Phe Ile Gly Asn Ile Phe Thr Phe Met Ala Arg Ser Pro
 130 135 140
 Ile Thr Gly Ala Ile Pro Arg Gly Gly Asn His Arg Gln Arg Pro Pro
 145 150 155 160
 Thr Leu Gly Ile Gln Phe Met Ala Leu Arg Thr Leu Trp Thr Thr Pro
 165 170 175
 Trp Pro Ser Lys Thr Gly Cys Pro Ile His Gln Pro Gly Ser Leu Trp
 180 185 190
 Glu Lys Leu Gly Trp Arg Pro Leu Lys Thr Leu Arg Arg Pro Lys Pro
 195 200 205
 Ser Trp Asn Ala Leu Leu Ala Leu Ala His Pro Arg Ser Phe Gln
 210 215 220 223

<210> 1461
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1461
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60

```

Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
65          70          75          80
Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
85          90          95
His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp
100        105        110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
115        120        125
Ala Gln Leu Gly Ser Leu Pro Pro Pro Asp Pro Arg Thr Thr His Arg
130        135        140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
145        150        155        160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
165        170        175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
180        185        190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
195        200        205
His *
209

```

```

<210> 1462
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1462
Met Ala Val Arg Val Leu Trp Gly Gly Leu Ser Leu Leu Arg Val Leu
1          5          10          15
Trp Cys Leu Leu Pro Gln Thr Gly Tyr Val His Pro Asp Glu Phe Phe
20        25        30
Gln Ser Pro Glu Val Met Ala Gly Lys Thr Pro His Val Trp Leu Arg
35        40        45
Gln Ala Ala Ala Glu Ser Ala *
50        55

```

```

<210> 1463
<211> 66
<212> PRT
<213> Homo sapiens

```

```

<400> 1463
Met Glu Asn Cys Val Gly Glu Arg Asn His Pro Leu Phe Val Val Tyr
1          5          10          15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Cys
20        25        30
Pro Gly Val Cys Gly Cys Gly Pro Ala Gly Ser Cys Ser Pro Pro Ser
35        40        45
Cys Cys Trp Pro Ser Ser Arg Gly Gly Gln Pro Gly Ser Arg Leu Ala
50        55        60
Pro Leu
65 66

```


<210> 1464
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1464
 Met Val Trp Arg Arg Leu Leu Arg Lys Arg Trp Val Leu Ala Leu Val
 1 5 10 15
 Phe Gly Leu Ser Leu Val Tyr Phe Leu Ser Ser Thr Phe Lys Gln Glu
 20 25 30
 Glu Arg Ala Val Arg Asp Arg Asn Leu Leu Gln Val His Asp His Asn
 35 40 45
 Gln Pro Ile Pro Trp Lys Val Gln Phe Asn Leu Gly Asn Ser Ser Arg
 50 55 60
 Pro Ser Asn Gln Cys Arg Asn Ser Ile Gln Gly Lys His Leu Ile Thr
 65 70 75 80
 Asp Glu Leu Gly Tyr Val Cys Glu Arg Lys Asp Leu Leu Val Asn Gly
 85 90 95
 Cys Cys Asn Val Asn Val Pro Ser Thr Lys Gln Tyr Cys Cys Asp Gly
 100 105 110
 Cys Trp Pro Asn Gly Cys Cys Ser Ala Tyr Glu Tyr Cys Val Ser Cys
 115 120 125
 Cys Leu Gln Pro Asn Lys Gln Leu Leu Leu Glu Arg Phe Leu Asn Arg
 130 135 140
 Ala Ala Val Ala Phe Gln Asn Leu Phe Met Ala Val Glu Asp His Phe
 145 150 155 160
 Glu Leu Cys Leu Ala Lys Cys Arg Thr Ser Ser Gln Ser Val Gln His
 165 170 175
 Glu Asn Thr Tyr Arg Asp Pro Ile Ala Lys Tyr Cys Tyr Gly Glu Ser
 180 185 190
 Pro Pro Glu Leu Phe Pro Ala *
 195 199

<210> 1465
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1465
 Met Gln Leu Ile Arg Arg Ser His Asn Arg His Trp Phe Arg Ser Ala
 1 5 10 15
 Ile Thr Phe Leu Met Cys Lys Gly Ile Thr Leu Leu Trp Leu Trp Lys
 20 25 30
 Leu Leu Thr Gly Asn Asp Cys Ile Glu Tyr Ile Arg Lys *
 35 40 45

<210> 1466
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1466

```

Met Arg Leu Leu Phe Ser Ser Gln Val Asn Ser Lys Arg Leu Thr Ala
 1          5          10          15
Ser Arg Ala Phe Leu Val Leu Val Pro Ala His Leu Ser Tyr Leu Leu
          20          25          30
Ala Leu Pro Ser Ile Pro Ala Thr Arg Gly Phe Trp Phe Lys Asp Thr
          35          40          45
Val Phe Leu Ser Cys Ser Ala *
 50          55

```

<210> 1467

<211> 366

<212> PRT

<213> Homo sapiens

<400> 1467

```

Met Arg Gly Gln Val Val Thr Leu Ile Leu Leu Leu Leu Lys Val
 1          5          10          15
Tyr Gln Gly Lys Gly Cys Gln Gly Ser Ala Asp His Val Val Ser Ile
          20          25          30
Ser Gly Val Pro Leu Gln Leu Gln Pro Asn Ser Ile Gln Thr Lys Val
          35          40          45
Asp Ser Ile Ala Trp Lys Lys Leu Leu Pro Ser Gln Asn Gly Phe His
 50          55          60
His Ile Leu Lys Trp Glu Asn Gly Ser Leu Pro Ser Asn Thr Ser Asn
 65          70          75          80
Asp Arg Phe Ser Phe Ile Val Lys Asn Leu Ser Leu Leu Ile Lys Ala
          85          90          95
Ala Gln Gln Gln Asp Ser Gly Leu Tyr Cys Leu Glu Val Thr Ser Ile
          100          105          110
Ser Gly Lys Val Gln Thr Ala Thr Phe Gln Val Phe Val Phe Asp Lys
          115          120          125
Val Glu Lys Pro Arg Leu Gln Gly Gln Gly Lys Ile Leu Asp Arg Gly
 130          135          140
Arg Cys Gln Val Ala Leu Ser Cys Leu Val Ser Arg Asp Gly Asn Val
 145          150          155          160
Ser Tyr Ala Trp Tyr Arg Gly Ser Lys Leu Ile Gln Thr Ala Gly Asn
          165          170          175
Leu Thr Tyr Leu Asp Glu Glu Val Asp Ile Asn Gly Thr His Thr Tyr
          180          185          190
Thr Cys Asn Val Ser Asn Pro Val Ser Trp Glu Ser His Thr Leu Asn
          195          200          205
Leu Thr Gln Asp Cys Gln Asn Ala His Gln Glu Phe Arg Phe Trp Pro
 210          215          220
Phe Leu Val Ile Ile Val Ile Leu Ser Ala Leu Phe Leu Gly Thr Leu
 225          230          235          240
Ala Cys Phe Cys Val Trp Arg Arg Lys Arg Lys Glu Lys Gln Ser Glu
          245          250          255
Thr Ser Pro Lys Glu Phe Leu Thr Ile Tyr Glu Asp Val Lys Asp Leu
          260          265          270
Lys Thr Arg Arg Asn His Glu Gln Gln Thr Phe Pro Gly Gly Gly
          275          280          285
Ser Thr Ile Tyr Ser Met Ile Gln Ser Gln Ser Ser Ala Pro Thr Ser
 290          295          300
Gln Glu Pro Ala Tyr Thr Leu Tyr Ser Leu Ile Gln Pro Ser Arg Lys

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305          310          315          320
Ser Gly Ser Arg Lys Arg Asn His Ser Pro Ser Phe Asn Ser Thr Ile
          325          330          335
Tyr Glu Val Ile Gly Lys Ser Gln Pro Lys Ala Gln Asn Pro Ala Arg
          340          345          350
Leu Ser Arg Lys Glu Leu Glu Asn Phe Asp Val Tyr Ser *
          355          360          365

```

```

<210> 1468
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1468
Met Thr Asp Phe Phe Leu Cys Ile His Ser Phe Tyr Leu Cys Val Leu
 1          5          10          15
Leu Gln Ala Ser Leu Asp Met Leu Ser Val Lys Ser Phe Ser Phe Lys
          20          25          30
Val Leu Cys Leu Met Lys Ala Lys Glu Lys Pro Asn Thr Thr Ser Cys
          35          40          45
His Leu Val Ile Asp Ser Asn Ser Thr
 50          55          57

```

```

<210> 1469
<211> 110
<212> PRT
<213> Homo sapiens

```

```

<400> 1469
Met Leu Glu Ile Leu Leu Lys Leu Val Arg Leu Leu Thr Thr Gln Pro
 1          5          10          15
Tyr Leu Thr Leu Phe Gln Ala Val Arg Asn Leu Ala Leu Asn Leu Ser
          20          25          30
Thr Ser Ser Gly Ser Leu Gly Pro Ala Pro Gly Glu Pro Arg Ala Gly
          35          40          45
Pro Leu Ala Pro Glu Gly Pro Arg Pro Leu Gly Ser Gly Pro Leu Gly
          50          55          60
Pro Arg Gly Leu Arg Ala Ser Gly Arg Arg Arg Ala Ser Ser Gly Leu
          65          70          75          80
Leu Leu Arg Tyr Cys Ala Ala Ala Gly Asp Thr Glu Phe Met Asp Ala
          85          90          95
Pro Gly Gly Arg Thr Glu Gly Pro Gly Gly Gly Leu Arg Pro
          100          105          110

```

```

<210> 1470
<211> 59
<212> PRT
<213> Homo sapiens

```

```

<400> 1470

```

```

Met Met Cys Arg Cys Met Cys Ala Cys Val Cys Ala Pro Val Cys Val
 1          5          10          15
His Met His Gly Leu Ala Pro Ala Pro Ala Ile Trp Ile Glu Gln Phe
          20          25          30
Trp Val Glu Asn Phe Phe Ser Pro Phe Leu Lys Val Ser Phe Tyr Ser
          35          40          45
Leu Pro Val Cys Ile Glu Lys Ser Ser Ile *
          50          55          58

```

<210> 1471
 <211> 123
 <212> PRT
 <213> Homo sapiens

```

<400> 1471
Met Met His Phe Leu Thr Gly Gly Trp Lys Val Leu Phe Ala Cys Val
 1          5          10          15
Pro Pro Thr Glu Tyr Cys His Gly Trp Ala Cys Phe Gly Val Ser Ile
          20          25          30
Leu Val Ile Gly Leu Leu Thr Ala Leu Ile Gly Asp Leu Ala Ser His
          35          40          45
Phe Gly Cys Thr Val Gly Leu Lys Asp Ser Val Asn Ala Val Val Phe
          50          55          60
Val Ala Leu Gly Thr Ser Ile Pro Gly Asn Thr Leu Gly Asp Phe Gly
          65          70          75          80
Gly Val Gly Ser Gln Met Ser Gln Ala Gly Ala Thr Gln Asp Pro Ala
          85          90          95
Glu Met Arg His Val Arg Gln Gln Gly Gly Gly Ala Ala Gly Pro Val
          100          105          110
Arg Arg Arg Val His Arg Glu Arg Asp Pro Leu
          115          120          123

```

<210> 1472
 <211> 316
 <212> PRT
 <213> Homo sapiens

```

<400> 1472
Met Val Ser Ala Ser Gly Thr Ser Phe Phe Lys Gly Met Leu Leu Gly
 1          5          10          15
Ser Ile Ser Trp Val Leu Ile Thr Met Phe Gly Gln Ile His Ile Arg
          20          25          30
His Arg Gly Gln Thr Gln Asp His Glu His His His Leu Arg Pro Pro
          35          40          45
Asn Arg Asn Asp Phe Leu Asn Thr Ser Lys Val Ile Leu Leu Glu Leu
          50          55          60
Ser Lys Ser Ile Arg Val Phe Cys Ile Ile Phe Gly Glu Ser Glu Asp
          65          70          75          80
Glu Ser Tyr Trp Ala Val Leu Lys Glu Thr Trp Thr Lys His Cys Asp
          85          90          95
Lys Ala Glu Leu Tyr Asp Thr Lys Asn Asp Asn Leu Phe Asn Ile Glu
          100          105          110
Ser Asn Asp Arg Trp Val Gln Met Arg Thr Ala Tyr Lys Tyr Val Phe

```

```

      115      120      125
Glu Lys Asn Gly Asp Asn Tyr Asn Trp Phe Phe Leu Ala Leu Pro Thr
130      135      140
Thr Phe Ala Val Ile Glu Asn Leu Lys Tyr Leu Leu Phe Thr Arg Asp
145      150      155      160
Ala Ser Gln Pro Phe Tyr Leu Gly His Thr Val Ile Phe Gly Asp Leu
      165      170      175
Glu Tyr Val Thr Val Glu Gly Gly Ile Val Leu Ser Arg Glu Leu Met
      180      185      190
Lys Arg Leu Asn Arg Leu Leu Asp Asn Ser Glu Thr Cys Ala Asp Gln
      195      200      205
Ser Val Ile Trp Lys Leu Ser Glu Asp Lys Gln Leu Ala Ile Cys Leu
      210      215      220
Lys Tyr Ala Gly Val His Ala Glu Asn Ala Glu Asp Tyr Glu Gly Arg
      225      230      235      240
Asp Val Phe Asn Thr Lys Pro Ile Ala Gln Leu Ile Glu Glu Ala Leu
      245      250      255
Ser Asn Asn Pro Gln Gln Val Val Glu Gly Cys Cys Ser Asp Met Ala
      260      265      270
Ile Thr Phe Asn Gly Leu Thr Pro Gln Lys Met Glu Val Met Met Tyr
      275      280      285
Gly Leu Tyr Arg Leu Arg Ala Phe Gly His Tyr Phe Asn Asp Thr Leu
      290      295      300
Val Phe Leu Pro Pro Val Gly Ser Glu Asn Asp *
305      310      315

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<210> 1473
<211> 65
<212> PRT
<213> Homo sapiens

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      <400> 1473
Met Gln Cys Pro Pro Pro Phe Leu Gly Gln Trp Leu Leu Cys Pro Ala
1      5      10      15
Ala Arg Gln Trp Gly Pro Gly Ala Gly Ser Pro Gly Pro Val Leu Val
      20      25      30
Pro Ala Gly Arg Arg Arg Pro Pro Arg Ser Gly Pro Gln Arg Asp
      35      40      45
Ser Pro Ala Pro Val Arg Gly Pro Gln Phe His Ser Val Val Gly Pro
      50      55      60      64
*
```

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<210> 1474
<211> 55
<212> PRT
<213> Homo sapiens

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      <400> 1474
Met Ile Phe Met Arg Val Leu Met Leu Leu Cys Cys Met Asp Ser Leu
1      5      10      15
Gly Ser Leu Asp Thr Phe Gln Trp Leu Ser Arg Val Leu Cys Pro Thr
      20      25      30

```

Glu Asn Leu Ile Phe Glu Leu Asn Gly Tyr Glu Leu Asn Ser Thr Trp
 35 40 45
 Phe Gly Trp Leu Asn Thr *
 50 54

<210> 1475
 <211> 128
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(128)
 <223> Xaa = any amino acid or nothing

<400> 1475
 Met Lys Phe Gln Leu Phe Leu Ser Tyr Val Phe Ile Thr Gln Val Phe
 1 5 10 15
 Ser Arg Pro Phe Gln Ser Asn Leu Gly Ser Leu Thr Pro Ala Ser Ser
 20 25 30
 Gln Ile Pro Leu Gln Leu Pro Lys Ala Leu Cys Val Arg Cys Leu Asn
 35 40 45
 Thr Val Xaa Xaa Xaa Xaa Xaa Thr Gly Phe Gly Lys Phe Gln Ile Thr
 50 55 60
 Ile Gln Ser Pro Gly Gly Pro Leu Val Leu Ala Arg Pro Trp Ala Ser
 65 70 75 80
 Lys Phe Pro Ser Pro Lys Phe Xaa Xaa Xaa Xaa Xaa Xaa Pro Lys Met
 85 90 95
 Gly Gly Lys Thr Phe Ala Tyr Gly Arg Ile Asn Pro Thr Arg Pro Ala
 100 105 110
 Lys Asn Xaa Xaa Xaa Xaa Xaa Xaa Ser Leu Ala Ser Leu Asn Pro Thr
 115 120 125 128

<210> 1476
 <211> 210
 <212> PRT
 <213> Homo sapiens

<400> 1476
 Met Tyr Phe Phe Leu Leu Leu Leu Phe Phe Asn Val Gln Arg Leu Ala
 1 5 10 15
 Phe Pro Phe Gly Ile Pro Asn Asp Pro Met Leu Trp Ser Glu Gly Gln
 20 25 30
 Ser His Leu Cys Trp Arg Ser Pro Leu Ile Pro Ser Ala Gln Phe Arg
 35 40 45
 Gly Ser Arg Ala Asp Ile Arg Gly Ser Met Leu His Ser Ser Ser Gly
 50 55 60
 Arg Val Val Pro Leu Asn Pro Ala Thr Lys Leu Ser Pro Leu Glu Ser
 65 70 75 80
 Gln Met Ala Leu His Thr Lys Ala Val Glu Ala Gly Met Val Phe Gly
 85 90 95
 His Arg Ala Glu His Lys Asp Pro Arg Ser Val Trp Glu Ser Tyr Trp

```

      100      105      110
Leu Leu Gly Ser Pro Trp Ala Glu Val Thr Arg Leu His Pro Arg Arg
      115      120      125
Ala Gln Leu Gly Ser Leu Pro Pro Asp Pro Arg Thr Thr His Arg
      130      135      140
Arg Gly Ala Val Ser Ile Phe Leu Lys Gly Pro Phe Gly Asp Leu Val
      145      150      155      160
Leu Ser Val Glu Arg Thr Asp Val Ala Leu Ser Ser Gln His Ile Pro
      165      170      175
Gly Ser Gly Arg Pro Gln Leu Lys Gln Cys Gln Gly Pro Gln Gly Ser
      180      185      190
His Leu Asp Arg Pro Thr Ala Cys Asn Ser Ala Leu Leu Arg Arg Gln
      195      200      205
His *
209

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<210> 1477
<211> 57
<212> PRT
<213> Homo sapiens

```

```

      <400> 1477
Met His Thr Cys Gln Ile Tyr Ile Tyr Ser Thr Asn Val Thr Phe Leu
  1      5      10      15
Phe Phe Val Leu Asp Val Arg Ala Cys Ser Tyr Val Arg Tyr Leu His
      20      25      30
Lys Leu Leu His Tyr Phe Phe Leu Cys Asn Thr Phe Leu Phe Val Tyr
      35      40      45
Val Val Gln Ile Tyr Phe Phe Pro *
      50      55      56

```

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<210> 1478
<211> 97
<212> PRT
<213> Homo sapiens

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      <400> 1478
Met Arg Ile Trp Ser Arg Ala Val Gly Asp Gly Pro Ala Ala Val Cys
  1      5      10      15
Cys Pro Leu Arg Ser Trp Cys Leu Leu Leu Trp Ala Leu Asp Ser Leu
      20      25      30
Asp Pro Ala Ala Val Thr Thr His Ala Ser Ala Met Leu Ser Gly Val
      35      40      45
Phe Thr Pro Pro Phe Val Ser Ala Leu Pro Val Gln Trp Met Gln Met
      50      55      60
Pro Val Leu Ser Phe Leu Ser Leu Thr Gly Ser Ser Val Tyr Val His
      65      70      75      80
Met Ala Leu Leu Ser Gly His Gln Gly Ser Asp Thr Cys Ser Gly Leu
      85      90      95      96
*
```

<210> 1479
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1479
 Met Leu Ser Ile Ser Tyr Phe Ser Asn Ser Leu Met Leu Arg Leu Val
 1 5 10 15
 Pro Leu Ala Ala Tyr Val Leu Ser Tyr Leu Ile Cys Ser Val Leu Leu
 20 25 30
 His Ile Asn Gln Thr Thr Val Thr Tyr Arg Gly Arg Lys Gln Arg
 35 40 45
 Lys Lys Ile Gln Phe Ala Thr Gly Asn His Gln Ser Ala Gln Ser Tyr
 50 55 60
 Ser Glu Leu Leu Ser Leu Ser Leu Ser Phe Ser Ser Leu Leu Ser Pro
 65 70 75 80
 Val Phe Ser Leu Pro Ser Trp Ser Leu Pro Ser Leu Pro Pro Phe Phe
 85 90 95
 Ser His Ser Pro His Gln Lys Gly Ile Met Met Val Pro Arg Ser Val
 100 105 110 112
 *

<210> 1480
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1480
 Met Arg Leu Ser Val Cys Leu Leu Leu Leu Thr Leu Ala Leu Cys Cys
 1 5 10 15
 Tyr Arg Ala Asn Ala Val Val Cys Gln Ala Leu Gly Ser Glu Ile Thr
 20 25 30
 Gly Phe Leu Leu Ala Gly Lys Pro Val Phe Lys Phe Gln Leu Ala Lys
 35 40 45
 Phe Lys Ala Pro Leu Glu Ala Val Ala Ala Lys Met Glu Val Lys Lys
 50 55 60
 Cys Val Asp Thr Met Ala Tyr Glu Lys Arg Val Leu Ile Thr Lys Thr
 65 70 75 80
 Leu Gly Lys Ile Ala Glu Lys Cys Asp Arg *
 85 90

<210> 1481
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1481
 Met Pro Gly Ser Ile Leu Ser Asn Leu His Val Leu Leu Lys Tyr Leu
 1 5 10 15
 Phe Thr Phe Ala Glu Val Phe Leu Val Pro Gly Pro Phe Asn Val Leu

20 25 30
 Phe Leu Ser Leu Arg Leu Glu Thr Leu Thr Phe Phe Val Leu Trp Leu
 35 40 45
 Val Pro Tyr Leu Ile *
 50 53

<210> 1482
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1482
 Met Glu Arg Trp Leu Gly Leu Ile Gln Thr Leu Trp Leu Pro Ala His
 1 5 10 15
 Ser Gly Pro Leu Gly Arg Ala Trp Val Val Pro Arg Ala Thr Ser Gly
 20 25 30
 His Tyr Trp Gly Gly Lys Gly Thr Asn Glu Gly Gly Gln Asp Lys Gly
 35 40 45
 His Phe Pro Leu Pro Pro Arg *
 50 55

<210> 1483
 <211> 202
 <212> PRT
 <213> Homo sapiens

<400> 1483
 Met Leu Leu Leu Leu Gly Leu Cys Leu Gly Leu Ser Leu Cys Val Gly
 1 5 10 15
 Ser Gln Glu Glu Ala Gln Ser Trp Gly His Ser Ser Glu Gln Asp Gly
 20 25 30
 Leu Arg Val Pro Arg Gln Val Arg Leu Leu Gln Arg Leu Lys Thr Lys
 35 40 45
 Pro Leu Met Thr Glu Phe Ser Val Lys Ser Thr Ile Ile Ser Arg Tyr
 50 55 60
 Ala Phe Thr Thr Val Ser Cys Arg Met Leu Asn Arg Ala Ser Glu Asp
 65 70 75 80
 Gln Asp Ile Glu Phe Gln Met Gln Ile Pro Ala Ala Ala Phe Ile Thr
 85 90 95
 Asn Phe Thr Met Leu Ile Gly Asp Lys Val Tyr Gln Gly Glu Ile Thr
 100 105 110
 Glu Arg Glu Lys Lys Ser Gly Asp Arg Val Lys Glu Lys Arg Asn Lys
 115 120 125
 Thr Thr Glu Glu Asn Gly Glu Lys Gly Thr Glu Ile Phe Arg Ala Ser
 130 135 140
 Ala Val Ile Pro Ser Lys Asp Lys Ala Ala Phe Phe Leu Ser Tyr Glu
 145 150 155 160
 Glu Leu Leu Gln Arg Arg Leu Gly Lys Tyr Glu His Ser Ile Ser Val
 165 170 175
 Arg Pro Gln Gln Leu Ser Gly Arg Leu Ser Val Asp Val Asn Ile Leu
 180 185 190
 Glu Ser Ala Gly Ile Ala Ser Leu Glu Val
 195 200 202

<210> 1484
 <211> 477
 <212> PRT
 <213> Homo sapiens

<400> 1484
 Met Pro Gln Leu Ser Leu Ser Trp Leu Gly Leu Gly Gln Val Ala Ala
 1 5 10 15
 Phe Pro Trp Leu Leu Leu Leu Ala Gly Ala Ser Arg Leu Leu Ala
 20 25 30
 Gly Phe Leu Ala Trp Thr Tyr Ala Phe Tyr Asp Asn Cys Arg Arg Leu
 35 40 45
 Gln Tyr Phe Pro Gln Pro Pro Lys Gln Lys Trp Phe Trp Gly Gln Pro
 50 55 60
 Gly Pro Pro Ala Ile Ala Pro Lys Asp Asp Leu Ser Ile Arg Phe Leu
 65 70 75 80
 Lys Pro Trp Leu Gly Glu Gly Ile Leu Leu Ser Gly Gly Asp Lys Trp
 85 90 95
 Ser Arg His Arg Arg Met Leu Thr Pro Ala Phe His Phe Asn Ile Leu
 100 105 110
 Lys Ser Tyr Ile Thr Ile Phe Asn Lys Ser Ala Asn Ile Met Leu Asp
 115 120 125
 Lys Trp Gln His Leu Ala Ser Glu Gly Ser Ser Cys Leu Asp Met Phe
 130 135 140
 Glu His Ile Ser Leu Met Thr Leu Asp Ser Leu Gln Lys Cys Ile Phe
 145 150 155 160
 Ser Phe Asp Ser His Cys Gln Glu Arg Pro Ser Glu Tyr Ile Ala Thr
 165 170 175
 Ile Leu Glu Leu Ser Ala Leu Val Glu Lys Arg Ser Gln His Ile Leu
 180 185 190
 Gln His Met Asp Phe Leu Tyr Tyr Leu Ser His Asp Gly Arg Arg Phe
 195 200 205
 His Arg Ala Cys Arg Leu Val His Asp Phe Thr Asp Ala Val Ile Arg
 210 215 220
 Glu Arg Arg Arg Thr Leu Pro Thr Gln Gly Ile Asp Asp Phe Phe Lys
 225 230 235 240
 Asp Lys Ala Lys Ser Lys Thr Leu Asp Phe Ile Asp Val Leu Leu Leu
 245 250 255
 Ser Lys Asp Glu Asp Gly Lys Ala Leu Ser Asp Glu Asp Ile Arg Ala
 260 265 270
 Glu Ala Asp Thr Phe Met Phe Gly Gly His Asp Thr Thr Ala Ser Gly
 275 280 285
 Leu Ser Trp Val Leu Tyr Asn Leu Ala Arg His Pro Glu Tyr Gln Glu
 290 295 300
 Arg Cys Arg Gln Glu Val Gln Glu Leu Leu Lys Asp Arg Asp Pro Lys
 305 310 315 320
 Glu Ile Glu Trp Asp Asp Leu Ala Gln Leu Pro Phe Leu Thr Met Cys
 325 330 335
 Val Lys Glu Ser Leu Arg Leu His Pro Pro Ala Pro Phe Ile Ser Arg
 340 345 350
 Cys Cys Thr Gln Asp Ile Val Leu Pro Asp Gly Arg Val Ile Pro Lys
 355 360 365
 Gly Ile Thr Cys Leu Ile Asp Ile Ile Gly Val His His Asn Pro Thr
 370 375 380
 Val Trp Pro Asp Pro Glu Val Tyr Asp Pro Phe Arg Phe Asp Pro Glu

```

385          390          395          400
Asn Ser Lys Gly Arg Ser Pro Leu Ala Phe Ile Pro Phe Ser Ala Gly
          405          410          415
Pro Arg Asn Cys Ile Gly Gln Ala Phe Ala Met Ala Glu Met Lys Val
          420          425          430
Val Leu Ala Leu Met Leu Leu His Phe Arg Phe Leu Pro Asp His Thr
          435          440          445
Glu Pro Arg Arg Lys Leu Glu Leu Ile Met Arg Ala Glu Gly Gly Leu
          450          455          460
Trp Leu Arg Val Glu Pro Leu Asn Val Ser Leu Gln *
465          470          475 476

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<210> 1485
<211> 67
<212> PRT
<213> Homo sapiens

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```

<400> 1485
Met Ala Cys Cys Leu Phe Leu Asn Gly Ser Trp Leu Ser Met Ala Leu
 1          5          10          15
Lys Phe Phe Asn Cys Trp Gly Lys Lys Ile Lys Arg Ile Ile Phe Tyr
          20          25          30
Val Lys Ile Met Lys Phe Lys Phe Gln Cys Pro Gln Ile Asn Thr Ala
          35          40          45
Thr Tyr Ile His Leu His Gly Cys Phe Cys Thr Ser Met Ala Glu Leu
          50          55          60
Ser Ser *
65 66

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<210> 1486
<211> 93
<212> PRT
<213> Homo sapiens

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<400> 1486
Met Gly Ser Ser Val Leu Ser Ile Trp Ile Leu Ser Pro Ser Ile Tyr
 1          5          10          15
Pro Ile Leu Ser Pro Leu Ala Met Pro Cys Leu Ser Arg Thr Asp Leu
          20          25          30
Ile Arg Val Arg Arg Ile Gln Gly Ala Trp Pro Ser Glu Gly Thr Ala
          35          40          45
Ser Ser Ile Arg Gly Trp Val Leu Thr Lys Leu Arg Met Ser Ser Gly
          50          55          60
Lys Ala Leu Glu Ala Leu Tyr Cys Ile Pro Gly Ala Ala Gln His Pro
          65          70          75          80
Gly Leu Gly Val Thr Arg Val Trp Ser Gly Arg Thr *
          85          90          92

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<210> 1487
<211> 88
<212> PRT

```

<213> Homo sapiens

<400> 1487

```

Met Gln Lys Val Thr Leu Gly Leu Leu Val Phe Leu Ala Gly Phe Pro
 1          5          10          15
Val Leu Asp Ala Asn Asp Leu Glu Asp Lys Asn Ser Pro Phe Tyr Tyr
          20          25          30
Asp Trp His Ser Leu Gln Val Gly Gly Leu Ile Cys Ala Gly Val Leu
          35          40          45
Cys Ala Met Gly Ile Ile Ile Val Met Ser Ala Lys Cys Lys Cys Lys
          50          55          60
Phe Gly Gln Lys Ser Gly His His Pro Gly Glu Thr Pro Pro Leu Ile
          65          70          75          80
Thr Pro Gly Ser Ala Gln Ser *
          85          87

```

<210> 1488

<211> 268

<212> PRT

<213> Homo sapiens

<400> 1488

```

Met Gly Ser Ala Cys Ile Lys Val Thr Lys Tyr Phe Leu Phe Leu Phe
 1          5          10          15
Asn Leu Ile Phe Phe Ile Leu Gly Ala Val Ile Leu Gly Phe Gly Val
          20          25          30
Trp Ile Leu Ala Asp Lys Ser Ser Phe Ile Ser Val Leu Gln Thr Ser
          35          40          45
Ser Ser Ser Leu Arg Met Gly Ala Tyr Val Phe Ile Gly Val Gly Ala
          50          55          60
Val Thr Met Leu Met Gly Phe Leu Gly Cys Ile Gly Ala Val Asn Glu
          65          70          75          80
Val Arg Cys Leu Leu Gly Leu Tyr Phe Ala Phe Leu Leu Leu Ile Leu
          85          90          95
Ile Ala Gln Val Thr Ala Gly Ala Leu Phe Tyr Phe Asn Met Gly Lys
          100          105          110
Leu Lys Gln Glu Met Gly Gly Ile Val Thr Glu Leu Ile Arg Asp Tyr
          115          120          125
Asn Ser Ser Arg Glu Asp Ser Leu Gln Asp Ala Trp Asp Tyr Val Gln
          130          135          140
Ala Gln Val Lys Cys Cys Gly Trp Val Ser Phe Tyr Asn Trp Thr Asp
          145          150          155          160
Asn Ala Glu Leu Met Asn Arg Pro Glu Val Thr Tyr Pro Cys Ser Cys
          165          170          175
Glu Val Lys Gly Glu Glu Asp Asn Ser Leu Ser Val Arg Lys Gly Phe
          180          185          190
Cys Glu Ala Pro Gly Asn Arg Thr Gln Ser Gly Asn His Pro Glu Asp
          195          200          205
Trp Pro Val Tyr Gln Glu Gly Cys Met Glu Lys Val Gln Ala Trp Leu
          210          215          220
Gln Glu Asn Leu Gly Ile Ile Leu Gly Val Gly Val Gly Val Ala Ile
          225          230          235          240
Ile Glu Leu Leu Gly Met Val Leu Ser Ile Cys Leu Cys Arg His Val
          245          250          255
His Ser Glu Asp Tyr Ser Lys Val Pro Lys Tyr *

```

260

265

267

<210> 1489
 <211> 832
 <212> PRT
 <213> Homo sapiens

<400> 1489

```

Met Thr Leu Ala Leu Ala Tyr Leu Leu Ala Leu Pro Gln Val Leu Asp
 1          5          10          15
Ala Asn Arg Cys Phe Glu Lys Gln Ser Pro Ser Ala Leu Ser Leu Gln
 20          25          30
Leu Ala Ala Tyr Tyr Tyr Ser Leu Gln Ile Tyr Ala Arg Leu Ala Pro
 35          40          45
Cys Phe Arg Asp Lys Cys His Pro Leu Tyr Arg Ala Asp Pro Lys Glu
 50          55          60
Leu Ile Lys Met Val Thr Arg His Val Thr Arg His Glu His Glu Ala
 65          70          75          80
Trp Pro Glu Asp Leu Ile Ser Leu Thr Lys Gln Leu His Cys Tyr Asn
 85          90          95
Glu Arg Leu Leu Asp Phe Thr Gln Ala Gln Ile Leu Gln Gly Leu Arg
100          105          110
Lys Gly Val Asp Val Gln Arg Phe Thr Ala Asp Asp Gln Tyr Lys Arg
115          120          125
Glu Thr Ile Leu Gly Leu Ala Glu Thr Leu Glu Glu Ser Val Tyr Ser
130          135          140
Ile Ala Ile Ser Leu Ala Gln Arg Tyr Ser Val Ser Arg Trp Glu Val
145          150          155          160
Phe Met Thr His Leu Glu Phe Leu Phe Thr Asp Ser Gly Leu Ser Thr
165          170          175
Leu Glu Ile Glu Asn Arg Ala Gln Asp Leu His Leu Phe Glu Thr Leu
180          185          190
Lys Thr Asp Pro Glu Ala Phe His Gln His Met Val Lys Tyr Ile Tyr
195          200          205
Pro Thr Ile Gly Gly Phe Asp His Glu Arg Leu Gln Tyr Tyr Phe Thr
210          215          220
Leu Leu Glu Asn Cys Gly Cys Ala Asp Leu Gly Asn Cys Ala Ile Lys
225          230          235          240
Pro Glu Thr His Ile Arg Leu Leu Lys Lys Phe Lys Val Val Ala Ser
245          250          255
Gly Leu Asn Tyr Lys Lys Leu Thr Asp Glu Asn Met Ser Pro Leu Glu
260          265          270
Ala Leu Glu Pro Val Leu Ser Ser Gln Asn Ile Leu Ser Ile Ser Lys
275          280          285
Leu Val Pro Lys Ile Pro Glu Lys Asp Gly Gln Met Leu Ser Pro Ser
290          295          300
Ser Leu Tyr Thr Ile Trp Leu Gln Lys Leu Phe Trp Thr Gly Asp Pro
305          310          315          320
His Leu Ile Lys Gln Val Pro Gly Ser Ser Pro Glu Trp Leu His Ala
325          330          335
Tyr Asp Val Cys Met Lys Tyr Phe Asp Arg Leu His Pro Gly Asp Leu
340          345          350
Ile Thr Val Val Asp Ala Val Thr Phe Ser Pro Lys Ala Val Thr Lys
355          360          365
Leu Ser Val Glu Ala Arg Lys Glu Met Thr Arg Lys Ala Ile Lys Thr
370          375          380

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Val	Lys	His	Phe	Ile	Glu	Lys	Pro	Arg	Lys	Arg	Asn	Ser	Glu	Asp	Glu	385	390	395	400
Ala	Gln	Glu	Ala	Lys	Asp	Ser	Lys	Val	Thr	Tyr	Ala	Asp	Thr	Leu	Asn	405	410	415	
His	Leu	Glu	Lys	Ser	Leu	Ala	His	Leu	Glu	Thr	Leu	Ser	His	Ser	Phe	420	425	430	
Ile	Leu	Ser	Leu	Lys	Asn	Ser	Glu	Gln	Glu	Thr	Leu	Gln	Lys	Tyr	Ser	435	440	445	
His	Leu	Tyr	Asp	Leu	Ser	Arg	Ser	Glu	Lys	Glu	Lys	Leu	His	Asp	Glu	450	455	460	
Ala	Val	Ala	Ile	Cys	Leu	Asp	Gly	Gln	Pro	Leu	Ala	Met	Ile	Gln	Gln	465	470	475	480
Leu	Leu	Glu	Val	Ala	Val	Gly	Pro	Leu	Asp	Ile	Ser	Pro	Lys	Asp	Ile	485	490	495	
Val	Gln	Ser	Ala	Ile	Met	Lys	Ile	Ile	Ser	Ala	Leu	Ser	Gly	Gly	Ser	500	505	510	
Ala	Asp	Leu	Gly	Gly	Pro	Arg	Asp	Pro	Leu	Lys	Val	Leu	Glu	Gly	Val	515	520	525	
Val	Ala	Ala	Val	His	Ala	Ser	Val	Asp	Lys	Gly	Glu	Glu	Leu	Val	Ser	530	535	540	
Pro	Glu	Asp	Leu	Leu	Glu	Trp	Leu	Arg	Pro	Phe	Cys	Ala	Asp	Asp	Ala	545	550	555	560
Trp	Pro	Val	Arg	Pro	Arg	Ile	His	Val	Leu	Gln	Ile	Leu	Gly	Gln	Ser	565	570	575	
Phe	His	Leu	Thr	Glu	Glu	Asp	Ser	Lys	Leu	Leu	Val	Phe	Phe	Arg	Thr	580	585	590	
Glu	Ala	Ile	Leu	Lys	Ala	Ser	Trp	Pro	Gln	Arg	Gln	Val	Asp	Ile	Ala	595	600	605	
Asp	Ile	Glu	Asn	Glu	Glu	Asn	Arg	Tyr	Cys	Leu	Phe	Met	Glu	Leu	Leu	610	615	620	
Glu	Ser	Ser	His	His	Glu	Ala	Glu	Phe	Gln	His	Leu	Val	Leu	Leu	Leu	625	630	635	640
Gln	Ala	Trp	Pro	Pro	Met	Lys	Ser	Glu	Tyr	Val	Ile	Thr	Asn	Asn	Pro	645	650	655	
Trp	Val	Arg	Leu	Ala	Thr	Val	Met	Leu	Thr	Arg	Cys	Thr	Met	Glu	Asn	660	665	670	
Lys	Glu	Gly	Leu	Gly	Asn	Glu	Val	Leu	Lys	Met	Cys	Arg	Ser	Leu	Tyr	675	680	685	
Asn	Thr	Lys	Gln	Met	Leu	Pro	Ala	Glu	Gly	Val	Lys	Glu	Leu	Cys	Leu	690	695	700	
Leu	Leu	Leu	Asn	Gln	Ser	Leu	Leu	Leu	Pro	Ser	Leu	Lys	Leu	Leu	Leu	705	710	715	720
Glu	Ser	Arg	Asp	Glu	His	Leu	His	Glu	Met	Ala	Leu	Glu	Gln	Ile	Thr	725	730	735	
Ala	Val	Thr	Thr	Val	Asn	Asp	Ser	Asn	Cys	Asp	Gln	Glu	Leu	Leu	Ser	740	745	750	
Leu	Leu	Leu	Asp	Ala	Lys	Leu	Leu	Val	Lys	Cys	Val	Ser	Thr	Pro	Phe	755	760	765	
Tyr	Pro	Arg	Ile	Val	Asp	His	Leu	Leu	Ala	Ser	Leu	Gln	Gln	Gly	Arg	770	775	780	
Trp	Asp	Ala	Glu	Glu	Leu	Gly	Arg	His	Leu	Arg	Glu	Ala	Gly	His	Glu	785	790	795	800
Ala	Glu	Ala	Gly	Ser	Leu	Leu	Leu	Ala	Val	Arg	Gly	Thr	His	Gln	Ala	805	810	815	
Phe	Arg	Thr	Phe	Ser	Thr	Ala	Leu	Arg	Ala	Ala	Gln	His	Trp	Val	*	820	825	830	831

<210> 1490
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1490
 Met Trp Phe Leu Leu Val Ser Val Val Cys Leu Tyr Gly Ile Gly Glu
 1 5 10 15
 Gly Asn Phe Phe Ser Leu Ala Ser Val Phe Ser Leu Leu Ser Leu Cys
 20 25 30
 Leu His Leu Leu Leu Trp Lys Arg Ala Phe Asp Arg Thr Asp Val Leu
 35 40 45
 Thr Ser Glu Trp Ile Phe *
 50 54

<210> 1491
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1491
 Met Thr Thr Thr Phe Pro Pro Arg Lys Met Val Ala Gln Phe Leu Leu
 1 5 10 15
 Val Ala Gly Asn Val Ala Asn Ile Thr Thr Val Ser Leu Trp Glu Glu
 20 25 30
 Phe Ser Ser Ser Asp Leu Ala Asp Leu Arg Phe Leu Asp Met Ser Gln
 35 40 45
 Asn Gln Phe Gln Tyr Leu Pro Asp Gly Phe Leu Arg Lys Met Pro Ser
 50 55 60
 Leu Ser His Leu Asn Leu His Gln Asn Cys Leu Met Thr Leu His Ile
 65 70 75 80
 Arg Glu His Glu Pro Pro Gly Ala Leu Thr Glu Leu Asp Leu Ser His
 85 90 95
 Asn Gln Leu Ser Glu Leu His Leu Ala Pro Gly Leu Ala Ser Cys Leu
 100 105 110
 Gly Ser Leu Arg Leu Phe Asn Leu Ser Ser Asn Gln Leu Leu Gly Val
 115 120 125
 Pro Pro Gly Pro Leu Tyr
 130 134

<210> 1492
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1492
 Met Arg Ser Glu Trp Phe Tyr Lys Trp Phe Phe Pro Pro Phe Ala Leu
 1 5 10 15
 His Phe Ser Leu Leu Pro Pro Cys Glu Glu Gly His Val Cys Leu Pro
 20 25 30
 Met Cys His Glu Cys Lys Phe Pro Glu Ala Ser Pro Ala Thr Met Asn
 35 40 45

Cys Glu Ser Ile Lys Pro Leu Phe Leu Ile Asn Tyr Pro Val Ser Asn
 50 55 60
 Lys Ser Leu Leu Ala Thr *
 65 70

<210> 1493
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1493
 Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1 5 10 15
 Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
 20 25 30
 Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
 35 40 45
 Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
 50 55 60
 His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
 65 70 75 77

<210> 1494
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1494
 Met Ala Gly Leu Asn Cys Gly Val Ser Ile Ala Leu Leu Gly Val Leu
 1 5 10 15
 Leu Leu Gly Ala Ala Arg Leu Pro Arg Gly Ala Glu Ala Phe Glu Ile
 20 25 30
 Ala Leu Pro Arg Glu Ser Asn Ile Thr Val Leu Ile Lys Leu Gly Thr
 35 40 45
 Pro Thr Leu Leu Ala Lys Pro Cys Tyr Ile Val Ile Ser Lys Arg His
 50 55 60
 Ile Thr Met Leu Ser Ile Lys Ser Gly Glu Arg Ile Val Phe Thr Phe
 65 70 75 80
 Ser Cys Gln Ser Pro Glu Asn His Phe Val Ile Glu Ile Gln Lys Asn
 85 90 95
 Ile Asp Cys Met Ser Gly Pro Cys Pro Phe Gly Glu Val Gln Leu Gln
 100 105 110
 Pro Ser Thr Ser Leu Leu Pro Thr Leu
 115 120 121

<210> 1495
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1495

```

Met Glu Asn Cys Val Gly Glu Arg Thr His Pro Leu Phe Val Val Tyr
 1          5          10          15
Leu Ala Leu Gln Leu Val Val Leu Leu Trp Gly Leu Tyr Leu Ala Trp
          20          25          30
Ser Gly Leu Arg Phe Phe Gln Pro Trp Gly Leu Trp Leu Arg Ser Ser
          35          40          45
Gly Leu Leu Phe Ala Thr Phe Gln Leu Leu Ser Leu Phe Ser Leu Val
          50          55          60
Ala Ser Leu Leu Leu Val Ser His Leu Tyr Leu Val Ala Ser Asn Thr
          65          70          75          80
Thr Thr Trp Glu Phe Ile Ser Ser His His Val
          85          90  91

```

<210> 1496

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1496

```

Met Ile Glu Thr Trp Leu Trp Leu Leu Leu Leu Asn Val Gly Gly Thr
 1          5          10          15
Gly Gln Trp Ser Gly Pro Thr Phe Arg Arg Glu Asn Val Leu Pro Ala
          20          25          30
Ala His Ile Gly Pro Lys Tyr Gly Pro Leu Leu Pro Ser Thr Ala Lys
          35          40          45
Gly Thr Val Lys Val Ser Cys Pro Ser Ser Thr Pro His Pro Pro Leu
          50          55          60
Gln Gly Lys Gly Thr Pro Asp *
          65          70  71

```

<210> 1497

<211> 196

<212> PRT

<213> Homo sapiens

<400> 1497

```

Met Ala Pro Arg Ala Leu Pro Gly Ser Ala Val Leu Ala Ala Ala Val
 1          5          10          15
Phe Val Gly Gly Ala Val Ser Ser Pro Leu Val Ala Pro Asp Asn Gly
          20          25          30
Ser Ser Arg Thr Leu His Ser Arg Thr Glu Thr Thr Pro Ser Pro Ser
          35          40          45
Asn Asp Thr Gly Asn Gly His Pro Glu Tyr Ile Ala Tyr Ala Leu Val
          50          55          60
Pro Val Phe Phe Ile Met Gly Leu Phe Gly Val Leu Ile Cys His Leu
          65          70          75          80
Leu Lys Lys Lys Gly Tyr Arg Cys Thr Thr Glu Ala Glu Gln Asp Ile
          85          90          95
Glu Glu Glu Lys Val Glu Lys Ile Glu Leu Asn Asp Ser Val Asn Glu
          100          105          110
Asn Ser Asp Thr Val Gly Gln Ile Val His Tyr Ile Met Lys Asn Glu
          115          120          125

```

Ala Asn Ala Asp Val Leu Lys Ala Met Val Ala Asp Asn Ser Leu Tyr
 130 135 140
 Asp Pro Glu Ser Pro Val Thr Pro Ser Thr Pro Gly Glu Pro Ala Ser
 145 150 155 160
 Glu Ser Trp Ala Phe Val Thr Arg Gly Asp Ala Arg Glu Ala Arg Leu
 165 170 175
 Trp Pro Ser Ser Ala Tyr Gly Gly Arg Cys Cys Arg Glu Gly Cys Val
 180 185 190
 Ser Ser Val *
 195

<210> 1498
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1498
 Met Trp Ser Gln Ile Ala Phe Val Arg Ile Pro Phe Cys Phe Ser Leu
 1 5 10 15
 Leu Ser His Ser Asn Ala Trp Phe Val Gln Lys Ala Ala Ser Gln Arg
 20 25 30
 Gln Ala Ser Ile Ser Thr Ala Cys His Cys Pro Ala Glu Ala Gly Gly
 35 40 45
 Glu Arg Ile Thr Val Ser Thr Thr Gly Ala Gln Arg Asn Ala Ala Met
 50 55 60
 Val Pro Asp Leu Gln Ser Pro Arg Arg Ser *
 65 70 74

<210> 1499
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1499
 Met Pro Ser Leu Met Met Val Leu Glu Ala Arg Phe Val Ser Ser Cys
 1 5 10 15
 Leu Ile Phe Pro Ser Arg Ala Met Pro Leu Leu Ser Arg Leu Leu Ala
 20 25 30
 Ser Lys Gly Ser Ser Val Asn Val Leu Val Lys Val Leu Phe Gly Gly
 35 40 45
 Thr Phe Ser Cys Ala Ser Ser Ile Ala Thr Gly Leu Thr *
 50 55 60 61

<210> 1500
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 1500
 Met Pro Ile Trp Lys Pro Phe Met Ala Trp Met Ala Ala Trp Ala Leu

```

      1           5           10           15
Ala Val Leu Ser Lys Leu Thr Lys Pro Ile His Leu Leu Trp Met Val
      20           25           30
Ala Arg Ser Ile Asn Thr Leu Glu Glu Met Ile Leu Pro Lys Gly Thr
      35           40           45
Asn Ile Cys Val Ser Ser Val Ser Pro Asn Ser Phe Ser Leu Leu Leu
      50           55           60
Leu Gln Glu Gly Arg Arg Leu Glu Asp Ala Val Arg Asp Gly Arg Asp
      65           70           75           80
Gly Arg Gly Gly Ala His Gly Cys Val Leu Leu Asp Ser Gly Glu Gly
      85           90           95
Arg Met Gln Cys Leu Gly His Ser Arg Ala Leu Ser Trp Val Trp His
      100          105          110
Lys Ala Ile Gly Ile Asp Glu Phe Pro Gly Gln Gly Ala His Leu Glu
      115          120          125
Arg Ala Arg His Leu Pro Ser His Trp *
      130          135          137

```

```

<210> 1501
<211> 82
<212> PRT
<213> Homo sapiens

```

```

      <400> 1501
Met Ile Leu Phe Thr Arg Ala Trp Phe Glu Leu Val Thr Leu Val Gln
      1           5           10           15
Phe Ile Ile Gly Ser Gln Met Leu Tyr Pro Tyr Leu His Ile Glu Glu
      20           25           30
Phe Val Ile Arg Lys Leu Pro Val Leu Leu Tyr Arg Lys Ser Val Ile
      35           40           45
Arg Tyr Gln Met Ala Ser Ser Pro Cys Leu Gln Met Phe Lys Gln Tyr
      50           55           60
Cys Gly Trp Ser Arg Lys Ser Leu Arg His Ala Val Lys Cys Arg Ala
      65           70           75           80
Arg *
      81

```

```

<210> 1502
<211> 54
<212> PRT
<213> Homo sapiens

```

```

      <400> 1502
Met Leu Leu Phe Leu Gly Phe Phe Ile Cys Ser Leu Phe Phe Ser Glu
      1           5           10           15
Leu Ser Thr Gly Thr Thr His Ser Leu Glu Ser Tyr Gln Ile Leu Leu
      20           25           30
Ser Lys Phe Phe Arg His Pro Leu Cys Thr Arg Thr Phe Arg Ile Leu
      35           40           45
Pro Pro Phe His Phe *
      50           53

```

<210> 1503
 <211> 62
 <212> PRT
 <213> Homo sapiens

<400> 1503
 Met Gly Trp Pro Pro Ser Leu Trp Val Leu Ala Leu Ala Tyr Cys Cys
 1 5 10 15
 Lys Ala Pro Gln Arg Leu Cys Ser Gly Ser Ser Pro Cys Arg Phe Ser
 20 25 30
 Ser Arg Met Ser Ala Ser Pro Ala Thr Asn Arg Asn Glu Asn Thr Thr
 35 40 45
 Ser Trp Ile Ala Ser Leu His Lys Tyr Val Ile Ser Gln *
 50 55 60 61

<210> 1504
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1504
 Met Trp Lys Gln Ile Ser Pro Ile Gly Asn Leu Val Thr Ala Ile Phe
 1 5 10 15
 Phe Cys Val Leu Cys Gln Gln Arg Tyr Gln Trp Leu Ala Arg Asp Ala
 20 25 30
 Phe Asn Thr Gln Ser Ile Leu Ser Pro Pro Ile Trp Val *
 35 40 45

<210> 1505
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1505
 Met Val Ala Val Ser Leu Leu Cys Pro Trp Pro Ser Ser Trp Asn Arg
 1 5 10 15
 Arg Ser Cys Gly Arg Ser His Arg Asn Leu Gly Leu Phe Thr Ala Phe
 20 25 30
 Leu Ser Val Pro Glu Phe Val Ile Phe Gly Ala Cys Arg Tyr Trp *
 35 40 45 47

<210> 1506
 <211> 190
 <212> PRT
 <213> Homo sapiens

<400> 1506
 Met Trp Leu Leu Gly Pro Leu Cys Leu Leu Leu Ser Ser Ala Ala Glu

```

      1           5           10           15
Ser Gln Leu Leu Pro Gly Asn Asn Phe Thr Asn Glu Cys Asn Ile Pro
      20           25           30
Gly Asn Phe Val Cys Ser Asn Gly Arg Cys Ile Pro Gly Ala Trp Gln
      35           40           45
Cys Asp Gly Leu Pro Asp Cys Phe Asp Lys Ser Asp Glu Lys Glu Cys
      50           55           60
Pro Lys Ala Lys Ser Lys Cys Gly Pro Thr Phe Phe Pro Cys Ala Ser
      65           70           75           80
Gly Ile His Cys Ile Ile Gly Arg Phe Arg Cys Asn Gly Phe Glu Asp
      85           90           95
Cys Pro Asp Gly Ser Asp Glu Glu Asn Cys Thr Ala Asn Pro Leu Leu
      100          105          110
Cys Ser Thr Ala Arg Tyr His Cys Lys Asn Gly Leu Cys Ile Asp Lys
      115          120          125
Ser Phe Ile Cys Asp Gly Gln Asn Asn Cys Gln Asp Asn Ser Asp Glu
      130          135          140
Glu Ser Cys Glu Ser Ser Gln Val Phe Arg Pro Gln Val Ser Glu Trp
      145          150          155          160
Gln Ala Arg Pro Arg Asp Leu Cys Ala Arg Trp Asn Ile Pro Phe Leu
      165          170          175
Gly Arg Leu Glu Arg Pro Trp Ser Phe Thr Ser Ser Gln Gln
      180          185          190

```

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<210> 1507
<211> 60
<212> PRT
<213> Homo sapiens

```

```

      <400> 1507
Met Tyr Arg Pro Ala Pro Pro Arg Gln Asn Arg Gln Leu His Pro Tyr
      1           5           10           15
Leu Leu Ala Ser Trp Pro Lys Ala Leu Asn Cys Thr Leu Cys Val Cys
      20           25           30
Val Cys Val Cys Ala Arg Val Cys Ala Cys Val Cys Met Trp Ser Val
      35           40           45
Thr Ser Leu Trp Leu Thr Cys Leu Ser Gly Val *
      50           55           59

```

```

<210> 1508
<211> 48
<212> PRT
<213> Homo sapiens

```

```

      <400> 1508
Met Ser His His Cys Ala Trp Pro Lys Asn Phe Leu Leu Lys Met Leu
      1           5           10           15
Ser Thr Gly Arg Val Gln Trp Leu Met Pro Ile Ile Phe Leu Phe Phe
      20           25           30
Gln Lys Met Gly Gly Asn Met Val Gly Ser Gln Leu Lys Leu Ser *
      35           40           45           47

```

<210> 1509
 <211> 85
 <212> PRT
 <213> Homo sapiens

<400> 1509
 Met Thr Gly Ser Arg Cys Glu Glu His Val Phe Ser Gln Gln Gln Pro
 1 5 10 15
 Gly His Ile Ala Ser Ile Leu Ile Pro Leu Leu Leu Leu Leu Leu
 20 25 30
 Val Leu Ala Ala Gly Val Val Phe Trp Tyr Lys Arg Arg Val Gln Gly
 35 40 45
 Ala Lys Gly Phe His His Gln Arg Met Thr Asn Gly Ala Met Asn Val
 50 55 60
 Glu Ile Gly Asn Pro Thr Tyr Lys Met Tyr Glu Gly Gly Glu Pro Asp
 65 70 75 80
 Asp Val Gly Gly Leu
 85

<210> 1510
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1510
 Met Ala Ile Ser Trp Lys Pro Thr Gly Leu Pro Trp His Ser Met Leu
 1 5 10 15
 Gln Val Leu Leu Ala Ala Trp Leu Pro Gly Pro Thr Pro Thr Pro His
 20 25 30
 Ser Ala Leu Pro Ser Phe Ser Pro Pro Pro Ser Leu Pro Pro Lys Met
 35 40 45
 Cys Leu Pro Lys Cys Cys *
 50 54

<210> 1511
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1511
 Met Val Gly Phe Gly Ala Asn Arg Arg Ala Gly Arg Leu Pro Ser Leu
 1 5 10 15
 Val Leu Gly Val Leu Leu Val Val Ile Val Val Leu Ala Phe Asn Tyr
 20 25 30
 Trp Ser Ile Ser Ser Arg His Val Leu Leu Gln Glu Glu Val Ala Glu
 35 40 45
 Leu Gln Gly Gln Val Gln Arg Thr Glu Val Ala Arg Gly Arg Leu Glu
 50 55 60
 Lys Arg Asn Ser Asp Leu Phe Ala Val Val Gly His Ala Gln Glu Thr
 65 70 75 80
 Asp Arg Pro Glu Gly Gly Arg Leu Arg Pro Pro Gln Gln Pro Ala Ala

Gly Gln Arg Gly Pro Arg Glu Glu Met Arg Gly *
 100 105 107 95

<210> 1512
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1512
 Met Val Ala Arg Val Trp Ser Leu Met Arg Phe Leu Ile Lys Gly Ser
 1 5 10 15
 Val Ala Gly Gly Ala Val Tyr Leu Val Tyr Asp Gln Glu Leu Leu Gly
 20 25 30
 Pro Ser Asp Lys Ser Gln Ala Ala Leu Gln Lys Ala Gly Glu Val Val
 35 40 45
 Pro Pro Ala Met Tyr Gln Phe Ser Gln Tyr Val Cys Gln Gln Thr Gly
 50 55 60
 Leu Gln Ile Pro Gln Leu Pro Ala Pro Pro Lys Ile Tyr Phe Pro Ile
 65 70 75 80
 Arg Asp Ser Trp Asn Ala Gly Ile Met Thr Val Met Ser Ala Leu Ser
 85 90 95
 Val Ala Pro Ser Lys Ala Arg Glu Tyr Ser Lys Glu Gly Trp Glu Tyr
 100 105 110
 Val Lys Ala Arg Thr Lys *
 115 118

<210> 1513
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1513
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val
 1 5 10 15
 Leu Ser Ser Leu Leu Met Ser Val Gly Leu Cys Thr Leu Phe Gly Leu
 20 25 30
 Thr Pro Thr Leu Asn Gly Gly Glu Ile Phe Pro Tyr Leu Val Val Val
 35 40 45
 Ile Gly Leu Glu Asn Val Leu Val Leu Thr Lys Ser Val Val Ser Thr
 50 55 60
 Pro Val Asp Leu Glu Val Lys Leu Arg Ile Ala Gln Gly Leu Ser Ser
 65 70 75 80
 Glu Ser Trp Ser Ile Met Lys Asn Met Ala Thr Glu Leu Gly Ile Ile
 85 90 95
 Leu Ile Gly Tyr Phe Thr Leu Val Pro Ala Ile Gln Glu Phe Cys Leu
 100 105 110
 Phe Ala Val Val Gly Leu Val Ser Asp Phe Phe Leu Gln Met Leu Phe
 115 120 125
 Phe Thr Thr Val Leu Ser Ile Asp Ile Arg Arg Met Glu Leu Ala Asp
 130 135 140
 Leu Asn Lys Arg Leu Pro Pro Glu Ala Cys Leu Pro Ser Ala Lys Pro
 145 150 155 160

Val Gly Gln Pro Thr Arg Tyr Glu Arg Gln Leu Ala Val Arg Pro Ser
 165 170 175
 Thr Pro His Thr Ile Thr Leu Gln Pro Ser Ser Phe Arg Asn Leu Arg
 180 185 190
 Leu Pro Lys Arg Leu Arg Val Val Tyr Phe Leu Ala Arg Thr Arg Leu
 195 200 205
 Ala Gln Arg Leu Ile Met Ala Gly Thr Val Val Trp Ile Gly Ile Leu
 210 215 220
 Val Tyr Thr Asp Pro Ala Gly Leu Arg Asn Tyr Leu Ala Ala Gln Val
 225 230 235 240
 Thr Glu Gln Ser Pro Leu Gly Glu Gly Ala Leu Ala Pro Met Pro Val
 245 250 255
 Pro Ser Gly Met Leu Pro Pro Ser His Pro Asp Pro Ala Phe Ser Ile
 260 265 270
 Phe Pro Pro Asp Ala Pro Lys Leu Pro Glu Asn Gln Thr Ser Pro Gly
 275 280 285
 Glu Ser Pro Glu Arg Gly Gly Pro Ala Glu Val Val His Asp Ser Pro
 290 295 300
 Val Pro Glu Val Thr Trp Gly Pro Glu Asp Glu Glu Leu Trp Arg Lys
 305 310 315 320
 Leu Ser Phe Arg His Trp Pro Thr Leu Phe Ser Tyr Tyr Asn Ile Thr
 325 330 335
 Leu Ala Lys Arg Tyr Ile Ser Leu Leu Pro Val Ile Pro Val Thr Leu
 340 345 350
 Arg Leu Asn Pro Arg Glu Ala Leu Glu Gly Arg His Pro Gln Asp Gly
 355 360 365
 Arg Ser Ala Trp Pro Pro Pro Gly Pro Ile Pro Ala Gly His Trp Glu
 370 375 380
 Ala Gly Pro Lys Gly Pro Gly Gly Val Gln Ala His Gly Asp Val Thr
 385 390 395 400
 Leu Tyr Lys Val Ala Ala Leu Gly Leu Ala Thr Gly Ile Val Leu Val
 405 410 415
 Leu Leu Leu Leu Cys Leu Tyr Arg Val Leu Cys Pro Arg Asn Tyr Gly
 420 425 430
 Gln Leu Gly Gly Gly Pro Gly Arg Arg Arg Arg Gly Glu Leu Pro Cys
 435 440 445
 Asp Asp Tyr Gly Tyr Ala Pro Pro Glu Thr Glu Ile Val Pro Leu Val
 450 455 460
 Leu Arg Gly His Leu Met Asp Ile Glu Cys Leu Ala Ser Asp Gly Met
 465 470 475 480
 Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu


```

625      630      635      640
Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
645      650      655
Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
660      665      670
Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
675      680      685
Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
690      695      700
Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
705      710      715      720
Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
725      730      735
Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
740      745      750
Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
755      760      765
Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Gly Arg
770      775      780
Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
785      790      795      800
Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
805      810      815
Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
820      825      830
Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
835      840      845
Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
850      855      860
Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
865      870      875      880
Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
885      890      895
Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
900      905      910
Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
915      920      925
Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
930      935      940
Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser
945      950      955      960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
965      970      972

```

<210> 1514

<211> 77

<212> PRT

<213> Homo sapiens

<400> 1514

```

Met Ile Ser Ser Trp Pro Phe Ser Arg Val Val Arg Phe Trp Phe Leu
1      5      10      15
His Gln Met Val Leu Asp Leu Cys Leu Gly Gln Gly Val Pro Gln Gln
20      25      30
Asn Leu Glu Asn Pro Arg Glu Arg Lys Ser Phe Leu Leu Phe Val Arg
35      40      45

```

```

Asn Leu Ile Ile Asp Ser Ser Leu Lys Ile Leu Ser Gln Glu Pro Ser
  50          55          60
Asn Leu Trp Gln Arg Ile Pro Lys Met Met Thr Thr *
  65          70          75  76

```

```

<210> 1515
<211> 148
<212> PRT
<213> Homo sapiens

```

```

<400> 1515
Met Leu Gly Ser Arg Leu Met Thr Leu Thr Val Cys Ala Gly Ala Leu
  1          5          10          15
Ala Arg Gly Arg Gly Thr Gly Thr Cys Glu Thr Arg Gln Glu Gly Lys
          20          25          30
Gly Gln Asn His Ser Thr Leu Ala Trp Pro His Glu Glu Pro Gly Ala
          35          40          45
Ser Thr Gly Arg Asp Gly Gly Lys Leu Pro Arg Gly Gln Cys Leu Leu
          50          55          60
Glu Lys Gly Pro Gly Gly Ala Gly Asp Lys Val Ser Lys Ile Phe Pro
          65          70          75          80
Ser Cys Ala Leu Ala Leu Leu Leu Ser Leu Ala Asn Pro Gly Pro Arg
          85          90          95
Gly Pro Arg Glu Phe His Leu Cys Trp Gly Trp Leu Asp Arg Gly Val
          100          105          110
Thr Gln Glu Ala Val His Val Gly Glu Lys Arg Gly Gly Leu Gly Ser
          115          120          125
Gly Arg Lys Gly Gly Trp Trp Pro Gly Trp Asp Pro Gly Cys Arg Asp
          130          135          140
Val Ile Thr *
145      147

```

```

<210> 1516
<211> 274
<212> PRT
<213> Homo sapiens

```

```

<400> 1516
Met Arg Gly Ser Gln Glu Val Leu Leu Met Trp Leu Leu Val Leu Ala
  1          5          10          15
Val Gly Gly Thr Glu His Ala Tyr Arg Pro Gly Arg Arg Val Cys Ala
          20          25          30
Val Arg Ala His Gly Asp Pro Val Ser Glu Ser Phe Val Gln Arg Val
          35          40          45
Tyr Gln Pro Phe Leu Thr Thr Cys Asp Gly His Arg Ala Cys Ser Thr
          50          55          60
Tyr Arg Thr Ile Tyr Arg Thr Ala Tyr Arg Arg Ser Pro Gly Leu Ala
          65          70          75          80
Pro Ala Arg Pro Arg Tyr Ala Cys Cys Pro Gly Trp Lys Arg Thr Ser
          85          90          95
Gly Leu Pro Gly Ala Cys Gly Ala Ala Ile Cys Gln Pro Pro Cys Arg
          100          105          110
Asn Gly Gly Ser Cys Val Gln Pro Gly Arg Cys Arg Cys Pro Ala Gly

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      115      120      125
Trp Arg Gly Asp Thr Cys Gln Ser Asp Val Asp Glu Cys Ser Ala Arg
 130      135      140
Arg Gly Gly Cys Pro Gln Arg Cys Val Asn Thr Ala Gly Ser Tyr Trp
145      150      155      160
Cys Gln Cys Trp Glu Gly His Ser Leu Ser Ala Asp Gly Thr Leu Cys
      165      170      175
Val Pro Lys Gly Gly Pro Pro Arg Val Ala Pro Asn Pro Thr Gly Val
      180      185      190
Asp Ser Ala Met Lys Glu Glu Val Gln Arg Leu Gln Ser Arg Val Asp
      195      200      205
Leu Leu Glu Glu Lys Leu Gln Leu Val Leu Ala Pro Leu His Ser Leu
 210      215      220
Ala Ser Gln Ala Leu Glu His Gly Leu Pro Asp Pro Gly Ser Leu Leu
225      230      235      240
Val His Ser Phe Gln Gln Leu Gly Arg Ile Asp Ser Leu Ser Glu Gln
      245      250      255
Ile Ser Phe Leu Glu Glu Gln Leu Gly Ser Cys Ser Cys Lys Lys Asp
      260      265      270
Ser *
273

```

```

<210> 1517
<211> 246
<212> PRT
<213> Homo sapiens

```

```

      <400> 1517
Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1      5      10      15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
      20      25      30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
      35      40      45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
 50      55      60
Trp Asn Lys Glu Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
65      70      75      80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
      85      90      95
Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
      100      105      110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
      115      120      125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
130      135      140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
145      150      155      160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
      165      170      175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
      180      185      190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
      195      200      205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
210      215      220

```

Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
 225 230 235 240
 Ser Asn Ser Ile Tyr *
 245

<210> 1518
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1518
 Met Arg Asn Arg Arg Thr Glu Arg Thr Cys Thr Pro Pro Leu Ala Ser
 1 5 10 15
 Pro Tyr Asn Leu Val Pro His Leu Gln Asn Leu Leu Ala Val Leu Leu
 20 25 30
 Met Ile Leu Val Leu Thr Pro Met Val Leu Asn Pro His Lys Leu Tyr
 35 40 45
 Gln Met Met Thr Gln Asn Ile Leu Leu Gln Lys Pro Gln Lys Asn Phe
 50 55 60
 Ile Trp Thr Ala Leu Lys Gly Asn Leu Ser Tyr Pro Arg Asn Leu Leu
 65 70 75 80
 Leu Gln Ser His Leu Ser Leu Leu Leu His Ser Leu Leu Leu Glu Leu
 85 90 95
 Asn Gln Arg Val Cys Leu Leu Pro Arg Ser Leu Ile Asp Pro Gly Lys
 100 105 110
 Arg Leu Lys Lys Lys Pro Met Glu Thr Phe
 115 120 122

<210> 1519
 <211> 249
 <212> PRT
 <213> Homo sapiens

<400> 1519
 Met Gly Leu Ser Ile Phe Leu Leu Leu Cys Val Leu Gly Leu Ser Gln
 1 5 10 15
 Ala Ala Thr Pro Lys Ile Phe Asn Gly Thr Glu Cys Gly Arg Asn Ser
 20 25 30
 Gln Pro Trp Gln Val Gly Leu Phe Glu Gly Thr Ser Leu Arg Cys Gly
 35 40 45
 Gly Val Leu Ile Asp His Arg Trp Val Leu Thr Ala Ala His Cys Ser
 50 55 60
 Gly Ser Arg Tyr Trp Val Arg Leu Gly Glu His Ser Leu Ser Gln Leu
 65 70 75 80
 Asp Trp Thr Glu Gln Ile Arg His Ser Gly Phe Ser Val Thr His Pro
 85 90 95
 Gly Tyr Leu Gly Ala Ser Thr Ser His Glu His Asp Leu Arg Leu Leu
 100 105 110
 Arg Leu Arg Leu Pro Val Arg Val Thr Ser Ser Val Gln Pro Leu Pro
 115 120 125
 Leu Pro Asn Asp Cys Ala Thr Ala Gly Thr Glu Cys His Val Ser Gly
 130 135 140
 Trp Gly Ile Thr Asn His Pro Arg Asn Pro Phe Pro Asp Leu Leu Gln

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145          150          155          160
Cys Leu Asn Leu Ser Ile Val Ser His Ala Thr Cys His Gly Val Tyr
          165          170          175
Pro Gly Arg Ile Thr Ser Asn Met Val Cys Ala Gly Gly Val Pro Gly
          180          185          190
Gln Asp Ala Cys Gln Gly Asp Ser Gly Gly Pro Leu Val Cys Gly Gly
          195          200          205
Val Leu Gln Gly Leu Val Ser Trp Gly Ser Val Gly Pro Cys Gly Gln
          210          215          220
Asp Gly Ile Pro Gly Val Tyr Thr Tyr Ile Cys Lys Tyr Val Asp Trp
225          230          235          240
Ile Arg Met Ile Met Arg Asn Asn *
          245          248

```

```

<210> 1520
<211> 292
<212> PRT
<213> Homo sapiens

```

```

<400> 1520
Met Leu Val Leu Gln Ile Leu Leu Cys Ile Arg Glu Phe Ile Leu Glu
 1          5          10          15
Arg Ser Leu Ile Asn Val Lys Asn Val Ala Lys Ser Leu Ala Val Val
          20          25          30
Leu Ala Leu Leu Asn Ile Gly Lys Phe Ile Leu Glu Lys Ile Phe Thr
          35          40          45
Asn Ala Lys Tyr Val Leu Asn Leu Leu Leu Val Ser Gln Ile Leu Leu
          50          55          60
Cys Met Arg Glu Phe Ile Leu Glu Arg Asn Pro Ile Asn Val Lys Asn
          65          70          75          80
Val Ala Lys Pro Phe Leu Ile Val His Thr Leu Phe Asp Ile Ile Glu
          85          90          95
Phe Ile Leu Glu Lys Asn His Thr Asn Val Lys His Val Ala Asn Leu
          100          105          110
Leu Val Thr Pro Gln Val Leu Leu Cys Ile Gly Glu Leu Ile Leu Glu
          115          120          125
Arg Asn Pro Ile His Val Lys Asn Val Ala Lys Pro Leu Val Ile Val
          130          135          140
Gln Met Leu Phe Ser Ile Gly Glu Phe Ile Leu Ala Arg Asp Pro Thr
145          150          155          160
Asn Val Lys Asn Val Ala Lys Pro Ser Thr Ile Gly His Thr Ser Leu
          165          170          175
His Ile Lys Glu Val Ile Leu Glu Arg Asp Pro Thr Asn Val Lys Asn
          180          185          190
Val Ala Lys Pro Ser Thr Leu Gly His Thr Ser Leu His Ile Gly Glu
          195          200          205
Asp Ile Leu Glu Arg Asp Pro Thr Asn Val Met Asn Val Val Lys Pro
          210          215          220
Ser Ala Ile Gly His Thr Ser Leu His Ile Gly Glu Val Ile Val Glu
225          230          235          240
Arg Asp Pro Thr Asn Val Lys Asn Val Ala Lys Pro Leu Thr Leu Gly
          245          250          255
His Thr Ser Leu His Ile Arg Glu Val Ile Leu Glu Lys Asn Phe Lys
          260          265          270
Asn Val Lys His Gly Ala Asp Phe Leu Leu Val Thr His Val Leu Leu
          275          280          285

```

Cys Ile Arg *
290 291

<210> 1521
<211> 129
<212> PRT
<213> Homo sapiens

<400> 1521
Met Gly Ser Thr Ala Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
1 5 10 15
Val Cys Ala Glu Val Gln Leu Val Gln Ser Gly Ala Glu Val Lys Lys
20 25 30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Gly Ser Gly Tyr Ser Phe
35 40 45
Thr Ser Tyr Trp Ile Gly Trp Val Arg Gln Met Pro Gly Lys Gly Leu
50 55 60
Glu Trp Met Gly Ile Ile Tyr Pro Gly Asp Ser Asp Thr Arg Tyr Ser
65 70 75 80
Pro Ser Phe Gln Gly Gln Val Thr Ile Ser Ala Asp Lys Ser Ile Ser
85 90 95
Thr Ala Tyr Leu Gln Trp Ser Ser Leu Lys Ala Ser Asp Thr Ala Met
100 105 110
Tyr Tyr Cys Ala Arg His Thr Val Arg Glu Thr Ser Pro Glu Pro Val
115 120 125 128
*

<210> 1522
<211> 66
<212> PRT
<213> Homo sapiens

<400> 1522
Met Val Val Val Leu Pro Cys Phe Ala Val Leu Lys Leu Leu Phe Gly
1 5 10 15
Gln Ser Lys Leu Gly Pro Met Gln Pro Ser Gln Ser Gly Leu Asp Pro
20 25 30
Val Gly Ala Gly Met Ser Ala Ser Ile Ala Asp Gly Ser Arg Ala Thr
35 40 45
Ala Asp Lys Ala Val Leu Leu Asp Pro Thr Ser Leu Leu Leu Glu Tyr
50 55 60
Thr *
65

<210> 1523
<211> 131
<212> PRT
<213> Homo sapiens

<400> 1523

```

Met Ile Leu Leu Ala Phe Leu Val Cys Trp Gly Pro Leu Phe Gly Leu
 1           5           10           15
Leu Leu Ala Asp Val Phe Gly Ser Asn Leu Trp Ala Gln Glu Tyr Leu
          20           25           30
Arg Gly Met Asp Trp Ile Leu Ala Leu Ala Val Leu Asn Ser Ala Val
          35           40           45
Asn Pro Ile Ile Tyr Ser Phe Arg Ser Arg Glu Val Cys Arg Ala Val
          50           55           60
Leu Ser Phe Leu Cys Cys Gly Cys Leu Arg Leu Gly Met Arg Gly Pro
          65           70           75           80
Gly Asp Cys Leu Ala Arg Ala Val Glu Ala His Ser Gly Ala Ser Thr
          85           90           95
Thr Asp Ser Ser Leu Arg Pro Arg Asp Ser Phe Arg Gly Ser Arg Ser
          100          105          110
Leu Ser Phe Arg Met Arg Glu Pro Leu Ser Ser Ile Ser Ser Val Arg
          115          120          125
Ser Ile *
          130

```

<210> 1524

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1524

```

Met Lys Phe Phe Val Phe Ala Leu Ile Leu Ala Leu Met Leu Ser Met
 1           5           10           15
Thr Gly Ala Asp Ser His Ala Lys Arg His His Gly Tyr Lys Arg Lys
          20           25           30
Phe His Glu Lys His His Ser His Arg Gly Tyr Arg Ser Asn Tyr Leu
          35           40           45
Tyr Asp Asn *
          50          51

```

<210> 1525

<211> 246

<212> PRT

<213> Homo sapiens

<400> 1525

```

Met Thr Leu Phe Pro Val Leu Leu Phe Leu Val Ala Gly Leu Leu Pro
 1           5           10           15
Ser Phe Pro Ala Asn Glu Asp Lys Asp Pro Ala Phe Thr Ala Leu Leu
          20           25           30
Thr Thr Gln Thr Gln Val Gln Arg Glu Ile Val Asn Lys His Asn Glu
          35           40           45
Leu Arg Arg Ala Val Ser Pro Pro Ala Arg Asn Met Leu Lys Met Glu
          50           55           60
Trp Asn Lys Glu Ala Ala Ala Asn Ala Gln Lys Trp Ala Asn Gln Cys
          65           70           75           80
Asn Tyr Arg His Ser Asn Pro Lys Asp Arg Met Thr Ser Leu Lys Cys
          85           90           95

```

```

Gly Glu Asn Leu Tyr Met Ser Ser Ala Ser Ser Ser Trp Ser Gln Ala
      100      105      110
Ile Gln Ser Trp Phe Asp Glu Tyr Asn Asp Phe Asp Phe Gly Val Gly
      115      120      125
Pro Lys Thr Pro Asn Ala Val Val Gly His Tyr Thr Gln Val Val Trp
      130      135      140
Tyr Ser Ser Tyr Leu Val Gly Cys Gly Asn Ala Tyr Cys Pro Asn Gln
      145      150      155      160
Lys Val Leu Lys Tyr Tyr Tyr Val Cys Gln Tyr Cys Pro Ala Gly Asn
      165      170      175
Trp Ala Asn Arg Leu Tyr Val Pro Tyr Glu Gln Gly Ala Pro Cys Ala
      180      185      190
Ser Cys Pro Asp Asn Cys Asp Asp Gly Leu Cys Thr Asn Gly Cys Lys
      195      200      205
Tyr Glu Asp Leu Tyr Ser Asn Cys Lys Ser Leu Lys Leu Thr Leu Thr
      210      215      220
Cys Lys His Gln Leu Val Arg Asp Ser Cys Lys Ala Ser Cys Asn Cys
      225      230      235      240
Ser Asn Ser Ile Tyr *
      245

```

```

<210> 1526
<211> 47
<212> PRT
<213> Homo sapiens

```

```

<400> 1526
Met Val Leu Gly Ala Arg Ala Val Ile Ser Phe Cys Ile Leu Ser Ala
  1      5      10      15
Met Pro Gly Tyr Met Val Val Pro Pro Glu Arg Thr Leu Leu Ala Tyr
      20      25      30
Lys Ser Leu Arg Met Ser Met Ser His Phe Met Met Glu Leu *
      35      40      45      46

```

```

<210> 1527
<211> 118
<212> PRT
<213> Homo sapiens

```

```

<400> 1527
Met Ser Ala Arg Gly Trp Pro Cys Glu Ala Phe Val Leu Ala Gln Val
  1      5      10      15
Cys Trp Cys Trp Leu Cys Val Arg Gly Arg Leu Cys Glu Ala Leu Thr
      20      25      30
Leu Ala Gln Val Arg Arg His Gln Val Cys Val Pro Gly Gln Pro Cys
      35      40      45
Glu Ala Leu Thr Leu Thr Gln Val Arg Arg His Gln Leu Cys Val Trp
      50      55      60
Gly Arg Pro Cys Glu Ala Leu Thr Leu Ala Gln Val Cys Trp Leu Trp
      65      70      75      80
Leu Cys Val Gln Gly Trp Pro His Glu Ala Leu Thr Leu Ala Gln Val
      85      90      95
Arg Gln His Gln Val Cys Val Arg Gly Arg Pro Cys Glu Ala Leu Ser

```


			100					105					110
Leu	Ala	Gln	Val	Arg	*								
			115		117								

```
<210> 1528
<211> 92
<212> PRT
<213> Homo sapiens
```

<400> 1528															
Met	Lys	Val	Ser	Ala	Ala	Ala	Leu	Ala	Val	Ile	Leu	Ile	Ala	Thr	Ala
1				5					10					15	
Leu	Cys	Ala	Pro	Ala	Ser	Ala	Ser	Pro	Tyr	Ser	Ser	Asp	Thr	Thr	Pro
			20					25					30		
Cys	Cys	Phe	Ala	Tyr	Ile	Ala	Arg	Pro	Leu	Pro	Arg	Ala	His	Ile	Lys
		35					40					45			
Glu	Tyr	Phe	Tyr	Thr	Ser	Gly	Lys	Cys	Ser	Asn	Pro	Ala	Val	Val	Phe
	50					55					60				
Val	Thr	Arg	Lys	Asn	Arg	Gln	Val	Cys	Ala	Asn	Pro	Glu	Lys	Lys	Trp
65				70						75					80
Val	Arg	Glu	Tyr	Ile	Asn	Ser	Leu	Glu	Met	Ser	*				
				85					90	91					

```
<210> 1529
<211> 71
<212> PRT
<213> Homo sapiens
```

```

      <400> 1529
Met Tyr Cys Trp Trp Cys Trp Leu Cys Thr Ala Met Val Cys Ser Gly
 1             5             10             15
Val Leu Cys Arg Pro Leu Trp Glu Pro Leu Ser Pro Arg Leu Ser Val
      20             25             30
Phe Trp Ala Gly Arg Tyr Leu Gly Phe Trp Cys Met Gly Cys Cys Arg
      35             40             45
Met Ala Met Tyr Cys Val Ser Ser Cys Ser Arg Phe Ser Gly Glu Ser
      50             55             60
Gly Phe Arg Arg Ile Pro *
 65             70

```

```
<210> 1530
<211> 85
<212> PRT
<213> Homo sapiens
```

Met Val Leu Arg Val Cys Phe Leu Ile Phe Val Leu Tyr His Asn Leu
1 5 10 15
Gly Lys Tyr Ile Phe Ile Ile Tyr Val Tyr Arg Cys Lys Asp Arg Phe
20 25 30

```

Thr Lys Gly Cys Ile Thr Val Val Gln Gln Ser Gly Ile Leu Thr Glu
      35              40              45
Leu Lys Gly Gln Gly Ser Phe Leu Tyr Val Leu Leu Cys Leu Asp Ile
      50              55              60
Thr Leu Leu Val Arg Ser Val Phe Lys Asn Asp Asn Ser Arg Phe Asp
      65              70              75              80
Phe Gln Ala Asn *
      84

```

```

<210> 1531
<211> 60
<212> PRT
<213> Homo sapiens

```

```

<400> 1531
Met Leu Pro Gln Val Phe Leu Gly Phe Thr Lys Val Arg Leu Leu Arg
  1              5              10              15
Leu Arg Asn Pro Trp Gly Cys Val Glu Trp Thr Gly Ala Trp Ser Asp
      20              25              30
Arg Trp Asp Gly Ser Gly Val Gly Val Gly Leu Asp Pro Thr Cys Pro
      35              40              45
Pro Leu Thr Pro Gln Ser Leu Gln Leu Pro Thr Leu
      50              55              60

```

```

<210> 1532
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<400> 1532
Met Leu Gly Leu His Gln Leu Cys Ser Leu Leu Val Gln Leu Asp Phe
  1              5              10              15
Tyr Leu Gln Tyr Leu Tyr Gly Gln Phe Gln Gln Phe Ser Met Cys Leu
      20              25              30
Asp Leu Asn His Val His Phe Leu Met Phe Pro Ser Leu Val Cys Ala
      35              40              45
Met Phe Arg Phe *
      50              52

```

```

<210> 1533
<211> 741
<212> PRT
<213> Homo sapiens

```

```

<400> 1533
Met Ala Glu Ser Arg Gly Arg Leu Tyr Leu Trp Met Cys Leu Ala Ala
  1              5              10              15
Ala Leu Ala Ser Phe Leu Met Gly Phe Met Val Gly Trp Phe Ile Lys
      20              25              30
Pro Leu Lys Glu Thr Thr Thr Ser Val Arg Tyr His Gln Ser Ile Arg

```

	35						40						45					
Trp	Lys	Leu	Val	Ser	Glu	Met	Lys	Ala	Glu	Asn	Ile	Lys	Ser	Phe	Leu			
50						55					60							
Arg	Ser	Phe	Thr	Lys	Leu	Pro	His	Leu	Ala	Gly	Thr	Glu	Gln	Asn	Phe			
65					70					75					80			
Leu	Leu	Ala	Lys	Lys	Ile	Gln	Thr	Gln	Trp	Lys	Lys	Phe	Gly	Leu	Asp			
				85					90					95				
Ser	Ala	Lys	Leu	Val	His	Tyr	Asp	Val	Leu	Leu	Ser	Tyr	Pro	Asn	Glu			
			100					105					110					
Thr	Asn	Ala	Asn	Tyr	Ile	Ser	Ile	Val	Asp	Glu	His	Glu	Thr	Glu	Ile			
			115					120				125						
Phe	Lys	Thr	Ser	Tyr	Leu	Glu	Pro	Pro	Pro	Asp	Gly	Tyr	Glu	Asn	Val			
						135					140							
Thr	Asn	Ile	Val	Pro	Pro	Tyr	Asn	Ala	Phe	Ser	Ala	Gln	Gly	Met	Pro			
145						150					155				160			
Glu	Gly	Asp	Leu	Val	Tyr	Val	Asn	Tyr	Ala	Arg	Thr	Glu	Asp	Phe	Phe			
				165					170					175				
Lys	Leu	Glu	Arg	Glu	Met	Gly	Ile	Asn	Cys	Thr	Gly	Lys	Ile	Val	Ile			
			180					185					190					
Ala	Arg	Tyr	Gly	Lys	Ile	Phe	Arg	Gly	Asn	Lys	Val	Lys	Asn	Ala	Met			
			195				200					205						
Leu	Ala	Gly	Ala	Ile	Gly	Ile	Ile	Leu	Tyr	Ser	Asp	Pro	Ala	Asp	Tyr			
						215					220							
Phe	Ala	Pro	Glu	Val	Gln	Pro	Tyr	Pro	Lys	Gly	Trp	Asn	Leu	Pro	Gly			
225					230					235					240			
Thr	Ala	Ala	Gln	Arg	Gly	Asn	Val	Leu	Asn	Leu	Asn	Gly	Ala	Gly	Asp			
				245					250					255				
Pro	Leu	Thr	Pro	Gly	Tyr	Pro	Ala	Lys	Glu	Tyr	Thr	Phe	Arg	Leu	Asp			
			260					265					270					
Val	Glu	Glu	Gly	Val	Gly	Ile	Pro	Arg	Ile	Pro	Val	His	Pro	Ile	Gly			
			275				280					285						
Tyr	Asn	Asp	Ala	Glu	Ile	Leu	Leu	Arg	Tyr	Leu	Gly	Gly	Ile	Ala	Pro			
						295					300							
Pro	Asp	Lys	Ser	Trp	Lys	Gly	Ala	Leu	Asn	Val	Ser	Tyr	Ser	Ile	Gly			
305					310					315					320			
Pro	Gly	Phe	Thr	Gly	Ser	Asp	Ser	Phe	Arg	Lys	Val	Arg	Met	His	Val			
				325					330					335				
Tyr	Asn	Ile	Asn	Lys	Ile	Thr	Arg	Ile	Tyr	Asn	Val	Val	Gly	Thr	Ile			
			340					345					350					
Arg	Gly	Ser	Val	Glu	Pro	Asp	Arg	Tyr	Val	Ile	Leu	Gly	Gly	His	Arg			
			355				360					365						
Asp	Ser	Trp	Val	Phe	Gly	Ala	Ile	Asp	Pro	Thr	Ser	Gly	Val	Ala	Val			
			370			375					380							
Leu	Gln	Glu	Ile	Ala	Arg	Ser	Phe	Gly	Lys	Leu	Met	Ser	Lys	Gly	Trp			
385					390				395						400			

Ala Tyr Phe Gln Arg Leu Gly Ile Ala Ser Gly Arg Ala Arg Tyr Thr
 515 520 525
 Lys Asn Lys Lys Thr Asp Lys Tyr Ser Ser Tyr Pro Val Tyr His Thr
 530 535 540
 Ile Tyr Glu Thr Phe Glu Leu Val Glu Lys Phe Tyr Asp Pro Thr Phe
 545 550 555 560
 Lys Lys Gln Leu Ser Val Ala Gln Leu Arg Gly Ala Leu Val Tyr Glu
 565 570 575
 Leu Val Asp Ser Lys Ile Ile Pro Phe Asn Ile Gln Asp Tyr Ala Glu
 580 585 590
 Ala Leu Lys Asn Tyr Ala Ala Ser Ile Tyr Asn Leu Ser Lys Lys His
 595 600 605
 Asp Gln Gln Leu Thr Asp His Gly Val Ser Phe Asp Ser Leu Phe Ser
 610 615 620
 Ala Val Lys Asn Phe Ser Glu Ala Ala Ser Asp Phe His Lys Arg Leu
 625 630 635 640
 Ile Gln Val Asp Leu Asn Asn Pro Ile Ala Val Arg Met Met Asn Asp
 645 650 655
 Gln Leu Met Leu Leu Glu Arg Ala Phe Ile Asp Pro Leu Gly Leu Pro
 660 665 670
 Gly Lys Leu Phe Tyr Arg His Ile Ile Phe Ala Pro Ser Ser His Asn
 675 680 685
 Lys Tyr Ala Gly Glu Ser Phe Pro Gly Ile Tyr Asp Ala Ile Phe Asp
 690 695 700
 Ile Glu Asn Lys Ala Asn Ser Arg Leu Ala Trp Lys Glu Val Lys Lys
 705 710 715 720
 His Ile Ser Ile Ala Ala Phe Thr Ile Gln Ala Ala Ala Gly Thr Leu
 725 730 735
 Lys Glu Val Leu *
 740

<210> 1534
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1534
 Met Leu Ile Leu Leu His Ile Leu Lys Asn Ile Lys Leu Tyr Leu Val
 1 5 10 15
 Asn Met Leu Lys Thr Lys Leu Cys Phe Tyr Lys Asp Arg Gly Ser Pro
 20 25 30
 Glu Glu Gly Ile Asp Lys Glu Glu Met Lys Leu Gly Gly Arg Lys Trp
 35 40 45
 Thr *
 49

<210> 1535
 <211> 973
 <212> PRT
 <213> Homo sapiens

<400> 1535
 Met Val Lys Ser Lys Trp Gly Leu Ala Leu Ala Ala Val Val Thr Val

1	5	10	15
Leu Ser Ser	Leu Leu Met	Ser Val Gly	Leu Cys Thr
20	25	30	
Thr Pro Thr	Leu Asn Gly	Gly Glu Ile	Phe Pro Tyr
35	40	45	
Ile Gly Leu	Glu Asn Val	Leu Val Leu	Thr Lys Ser
50	55	60	
Pro Val Asp	Leu Glu Val	Lys Leu Arg	Ile Ala Gln
65	70	75	
Glu Ser Trp	Ser Ile Met	Lys Asn Met	Ala Thr Glu
85	90	95	
Leu Ile Gly	Tyr Phe Thr	Leu Val Pro	Ala Ile Gln
100	105	110	
Phe Ala Val	Val Gly Leu	Val Ser Asp	Phe Phe Leu
115	120	125	
Phe Thr Thr	Val Leu Ser	Ile Asp Ile	Arg Arg Met
130	135	140	
Leu Asn Lys	Arg Leu Pro	Pro Glu Ala	Cys Leu Pro
145	150	155	
Val Gly Gln	Pro Thr Arg	Tyr Glu Arg	Gln Leu Ala
165	170	175	
Thr Pro His	Thr Ile Thr	Leu Gln Pro	Ser Ser Phe
180	185	190	
Leu Pro Lys	Arg Leu Arg	Val Val Tyr	Phe Leu Ala
195	200	205	
Ala Gln Arg	Leu Ile Met	Ala Gly Thr	Val Val Trp
210	215	220	
Val Tyr Thr	Asp Pro Ala	Gly Leu Arg	Asn Tyr Leu
225	230	235	
Thr Glu Gln	Ser Pro Leu	Gly Glu Gly	Ala Leu Ala
245	250	255	
Pro Ser Gly	Met Leu Pro	Pro Ser His	Pro Asp Pro
260	265	270	
Phe Pro Pro	Asp Ala Pro	Lys Leu Pro	Glu Asn Gln
275	280	285	
Glu Ser Pro	Glu Arg Gly	Gly Gly Pro	Ala Glu Val
290	295	300	
Val Pro Glu	Val Thr Trp	Gly Pro Glu	Asp Glu Glu
305	310	315	
Leu Ser Phe	Arg His Trp	Pro Thr Leu	Phe Ser Tyr
325	330	335	
Leu Ala Lys	Arg Tyr Ile	Ser Leu Leu	Pro Val Ile
340	345	350	
Arg Leu Asn	Pro Arg Glu	Ala Leu Glu	Gly Arg His
355	360	365	
Arg Ser Ala	Trp Pro Pro	Pro Gly Pro	Ile Pro Ala
370	375	380	
Ala Gly Pro	Lys Gly Pro	Gly Gly Val	Gln Ala His
385	390	395	
Leu Tyr Lys	Val Ala Ala	Leu Gly Leu	Ala Thr Gly
405	410	415	
Leu Leu Leu	Leu Cys Leu	Tyr Arg Val	Leu Cys Pro
420	425	430	
Gln Leu Gly	Gly Gly Pro	Gly Arg Arg	Arg Gly Glu
435	440	445	
Asp Asp Tyr	Gly Tyr Ala	Pro Pro Glu	Thr Glu Ile
450	455	460	
Leu Arg Gly	His Leu Met	Asp Ile Glu	Cys Leu Ala
465	470	475	
			Ser Asp Gly
			Met 480

Leu Leu Val Ser Cys Cys Leu Ala Gly His Val Cys Val Trp Asp Ala
 485 490 495
 Gln Thr Gly Asp Cys Leu Thr Arg Ile Pro Arg Pro Gly Arg Gln Arg
 500 505 510
 Arg Asp Ser Gly Val Gly Ser Gly Leu Glu Ala Gln Glu Ser Trp Glu
 515 520 525
 Arg Leu Ser Asp Gly Gly Lys Ala Gly Pro Glu Glu Pro Gly Asp Ser
 530 535 540
 Pro Pro Leu Arg His Arg Pro Arg Gly Pro Pro Pro Pro Ser Leu Phe
 545 550 555 560
 Gly Asp Gln Pro Asp Leu Thr Cys Leu Ile Asp Thr Asn Phe Ser Ala
 565 570 575
 Gln Pro Arg Ser Ser Gln Pro Thr Gln Pro Glu Pro Arg His Arg Ala
 580 585 590
 Val Cys Gly Arg Ser Arg Asp Ser Pro Gly Tyr Asp Phe Ser Cys Leu
 595 600 605
 Val Gln Arg Val Tyr Gln Glu Glu Gly Leu Ala Ala Val Cys Thr Pro
 610 615 620
 Ala Leu Arg Pro Pro Ser Pro Gly Pro Val Leu Ser Gln Ala Pro Glu
 625 630 635 640
 Asp Glu Gly Gly Ser Pro Glu Lys Gly Ser Pro Ser Leu Ala Trp Ala
 645 650 655
 Pro Ser Ala Glu Gly Ser Ile Trp Ser Leu Glu Leu Gln Gly Asn Leu
 660 665 670
 Ile Val Val Gly Arg Ser Ser Gly Arg Leu Glu Val Trp Asp Ala Ile
 675 680 685
 Glu Gly Val Leu Cys Cys Ser Ser Glu Glu Val Ser Ser Gly Ile Thr
 690 695 700
 Ala Leu Val Phe Leu Asp Lys Arg Ile Val Ala Ala Arg Leu Asn Gly
 705 710 715 720
 Ser Leu Asp Phe Phe Ser Leu Glu Thr His Thr Ala Leu Ser Pro Leu
 725 730 735
 Gln Phe Arg Gly Thr Pro Gly Arg Gly Ser Ser Pro Ala Ser Pro Val
 740 745 750
 Tyr Ser Ser Ser Asp Thr Val Ala Cys His Leu Thr His Thr Val Pro
 755 760 765
 Cys Ala His Gln Lys Pro Ile Thr Ala Leu Lys Ala Ala Ala Gly Arg
 770 775 780
 Leu Val Thr Gly Ser Gln Asp His Thr Leu Arg Val Phe Arg Leu Glu
 785 790 795 800
 Asp Ser Cys Cys Leu Phe Thr Leu Gln Gly His Ser Gly Ala Ile Thr
 805 810 815
 Thr Val Tyr Ile Asp Gln Thr Met Val Leu Ala Ser Gly Gly Gln Asp
 820 825 830
 Gly Ala Ile Cys Leu Trp Asp Val Leu Thr Gly Ser Arg Val Ser His
 835 840 845
 Val Phe Ala His Arg Gly Asp Val Thr Ser Leu Thr Cys Thr Thr Ser
 850 855 860
 Cys Val Ile Ser Ser Gly Leu Asp Asp Leu Ile Ser Ile Trp Asp Arg
 865 870 875 880
 Ser Thr Gly Ile Lys Phe Tyr Ser Ile Gln Gln Asp Leu Gly Cys Gly
 885 890 895
 Ala Ser Leu Gly Val Ile Ser Asp Asn Leu Leu Val Thr Gly Gly Gln
 900 905 910
 Gly Cys Val Ser Phe Trp Asp Leu Asn Tyr Gly Asp Leu Leu Gln Thr
 915 920 925
 Val Tyr Leu Gly Lys Asn Ser Glu Ala Gln Pro Ala Arg Gln Ile Leu
 930 935 940
 Val Leu Asp Asn Ala Ala Ile Val Cys Asn Phe Gly Ser Glu Leu Ser

945 950 955 960
Leu Val Tyr Val Pro Ser Val Leu Glu Lys Leu Asp *
 965 970 972

```
<210> 1536
<211> 75
<212> PRT
<213> Homo sapiens
```

<400> 1536															
Met	Cys	Leu	Leu	Lys	Ala	Ala	Pro	Phe	Phe	Phe	Phe	Tyr	Val	Pro	Gln
1				5					10					15	
Val	Gly	Lys	Gly	Asn	Pro	Arg	Pro	Pro	Arg	Gly	Cys	Ser	Ala	Phe	His
			20					25					30		
Pro	Pro	Thr	His	Leu	Arg	Pro	Gly	Ser	Cys	Ser	Val	Ala	Gln	Ala	Gly
		35					40					45			
Val	Gln	Trp	Arg	Ser	Leu	Gly	Ser	Ile	Ala	Ala	Ser	Val	Ser	Trp	Val
	50					55					60				
Gln	Ala	Ile	Leu	Leu	Pro	Gln	Pro	Leu	Glu	*	.				
65					70				74						

```
<210> 1537
<211> 96
<212> PRT
<213> Homo sapiens
```

<400> 1537															
Met	Asp	Leu	Gly	Arg	Val	Phe	Ile	Thr	Leu	Ile	Leu	Asn	Leu	Leu	Arg
1				5					10					15	
Glu	Thr	Ile	Phe	Lys	Arg	Asp	Gln	Ser	Pro	Glu	Pro	Lys	Val	Pro	Glu
			20					25					30		
Gln	Ser	Val	Lys	Glu	Asp	Arg	Lys	Leu	Cys	Glu	Arg	Pro	Leu	Ala	Ser
		35					40					45			
Ser	Pro	Pro	Arg	Leu	Tyr	Glu	Asp	Asp	Glu	Thr	Pro	Gly	Ala	Leu	Ser
	50					55					60				
Gly	Leu	Thr	Asn	Met	Ala	Val	Ile	Gln	Ile	Asp	Gly	His	Met	Ser	Gly
65				70					75				80		
Gln	Met	Val	Lys	His	Leu	Met	Asn	Ser	Met	Met	Lys	Leu	Cys	Val	Met
			85						90				95	96	

```
<210> 1538
<211> 318
<212> PRT
<213> Homo sapiens
```

<400> 1538
Met Val Met Arg Pro Leu Trp Ser Leu Leu Leu Trp Glu Ala Leu Leu
1 5 10 15

```

Pro Ile Thr Val Thr Gly Ala Gln Val Leu Ser Lys Val Gly Gly Ser
      20                25                30
Val Leu Leu Val Ala Ala Arg Pro Pro Gly Phe Gln Val Arg Glu Ala
      35                40                45
Ile Trp Arg Ser Leu Trp Pro Ser Glu Glu Leu Leu Ala Thr Phe Phe
      50                55                60
Arg Gly Ser Leu Glu Thr Leu Tyr His Ser Arg Phe Leu Gly Arg Ala
      65                70                75                80
Gln Leu His Ser Asn Leu Ser Leu Glu Leu Gly Pro Leu Glu Ser Gly
      85                90                95
Asp Ser Gly Asn Phe Ser Val Leu Met Val Asp Thr Arg Gly Gln Pro
      100               105               110
Trp Thr Gln Thr Leu Gln Leu Lys Val Tyr Asp Ala Val Pro Arg Pro
      115               120               125
Val Val Gln Val Phe Ile Ala Val Glu Arg Asp Ala Gln Pro Ser Lys
      130               135               140
Thr Cys Gln Val Phe Leu Ser Cys Trp Ala Pro Asn Ile Ser Glu Ile
      145               150               155               160
Thr Tyr Ser Trp Arg Arg Glu Thr Thr Met Asp Phe Gly Met Glu Pro
      165               170               175
His Ser Leu Phe Thr Asp Gly Gln Val Leu Ser Ile Ser Leu Gly Pro
      180               185               190
Gly Asp Arg Asp Val Ala Tyr Ser Cys Ile Val Ser Asn Pro Val Ser
      195               200               205
Trp Asp Leu Ala Thr Val Thr Pro Trp Asp Ser Cys His His Glu Ala
      210               215               220
Ala Pro Gly Lys Ala Ser Tyr Lys Asp Val Leu Leu Val Val Val Pro
      225               230               235               240
Val Ser Leu Leu Leu Met Leu Val Thr Leu Phe Ser Ala Trp His Trp
      245               250               255
Cys Pro Cys Ser Gly Pro His Leu Arg Ser Lys Gln Leu Trp Met Arg
      260               265               270
Trp Asp Leu Gln Leu Ser Leu His Lys Val Thr Leu Ser Asn Leu Ile
      275               280               285
Ser Thr Val Val Cys Ser Val Val His Gln Gly Leu Val Glu Gln Ile
      290               295               300
His Thr Ala Leu Ile Lys Phe Pro Ser Leu Met Lys Lys Lys
      305               310               315               318

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<210> 1539

<211> 157

<212> PRT

<213> Homo sapiens

<400> 1539

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Met Ile Leu Gln Val Ser Gly Gly Pro Trp Thr Val Ala Leu Thr Ala
  1           5           10           15
Leu Leu Met Val Leu Leu Ile Ser Val Val Gln Ser Arg Ala Thr Pro
      20                25                30
Glu Asn Ser Val Tyr Gln Glu Arg Gln Glu Cys Tyr Ala Phe Asn Gly
      35                40                45
Thr Gln Arg Val Val Asp Gly Leu Ile Tyr Asn Arg Glu Glu Tyr Val
      50                55                60
His Phe Asp Ser Ala Val Gly Glu Phe Leu Ala Val Met Glu Leu Gly
      65                70                75                80
Arg Pro Ile Gly Glu Tyr Phe Asn Ser Gln Lys Asp Phe Met Glu Arg

```



```

      85          90          95
Lys Arg Ala Glu Val Asp Lys Val Cys Arg His Lys Tyr Glu Leu Met
      100          105          110
Glu Pro Leu Ile Arg Gln Arg Arg Gly Asp Val Thr Ile Thr Ala Val
      115          120          125
Arg Gly Cys Trp Thr Thr Ile Leu Ser Gly Tyr Phe Leu Leu Lys Arg
      130          135          140
Gly Val Val Ser Gly Gly Cys Ser Trp Gly Ser Ser *
145          150          155 156

```

```

<210> 1540
<211> 135
<212> PRT
<213> Homo sapiens

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```

<400> 1540
Met Gly Ser Ser Phe Ile Leu Ala Leu Leu Leu Ala Val Leu Gln Gly
 1          5          10          15
Leu Ser Ala Gly Val Leu Leu Glu Gln Ser Arg Ala Glu Val Lys Lys
      20          25          30
Pro Gly Glu Ser Leu Lys Ile Ser Cys Lys Ala Ser Gly Tyr Arg Phe
      35          40          45
Thr Ser Ala Trp Ile Ala Trp Val Arg Gln Met Pro Gly Lys Gly Leu
      50          55          60
Glu Trp Met Gly Thr Ile Tyr Pro Ala Asp Ser Glu Val Arg Tyr Ser
      65          70          75          80
Pro Ser Leu Gln Gly Gln Val Thr Leu Ser Val Asp Glu Ser Ile Ser
      85          90          95
Thr Ala Tyr Leu Gln Trp Asn Ser Leu Arg Ala Ser Asp Thr Ala Thr
      100          105          110
Tyr Tyr Cys Ala Arg Gln Ile Ile Gly Ala Leu Pro Thr Asp Pro Phe
      115          120          125
Asp Leu Leu Gly Gln Gly Thr
130          135

```

```

<210> 1541
<211> 72
<212> PRT
<213> Homo sapiens

```

```

<400> 1541
Met Cys Val Thr Cys Val Val Cys Met Trp Cys Met Cys Gly Val Cys
 1          5          10          15
Ala Met Tyr Val Ala Cys Val Met His Val Val Cys Glu Val Tyr Val
      20          25          30
Trp Tyr Val Cys Asp Val Cys Ala Phe Gly His Thr Gly Val Val Ile
      35          40          45
Ala Leu Thr Trp Thr Pro Pro Gln Arg Val Ile Arg Lys Gly Gln Val
      50          55          60
Leu Arg Leu Ala Cys Ser Gln *
      65          70 71

```

<210> 1542
 <211> 369
 <212> PRT
 <213> Homo sapiens

<400> 1542
 Met Ala Pro Arg Thr Leu Val Leu Leu Leu Ser Gly Ala Leu Ala Leu
 1 5 10 15
 Thr Gln Thr Trp Ala Gly Ser His Ser Met Arg Tyr Phe Phe Thr Ser
 20 25 30
 Val Ser Arg Pro Gly Arg Gly Glu Pro Arg Phe Ile Ala Val Gly Tyr
 35 40 45
 Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala Ala Ser Gln
 50 55 60
 Arg Met Glu Pro Arg Ala Pro Trp Ile Glu Gln Glu Gly Pro Glu Tyr
 65 70 75 80
 Trp Asp Gly Glu Thr Arg Lys Val Lys Ala His Ser Gln Thr His Arg
 85 90 95
 Val Asp Leu Gly Thr Leu Arg Gly Tyr Tyr Asn Gln Ser Glu Ala Gly
 100 105 110
 Ser His Thr Val Gln Arg Met Tyr Gly Cys Asp Val Gly Ser Asp Trp
 115 120 125
 Arg Phe Leu Arg Gly Tyr His Gln Tyr Ala Tyr Asp Gly Lys Asp Tyr
 130 135 140
 Ile Ala Leu Lys Glu Asp Leu Arg Ser Trp Thr Ala Ala Asp Met Ala
 145 150 155 160
 Ala Gln Thr Thr Lys His Lys Trp Glu Ala Ala His Val Ala Glu Gln
 165 170 175
 Leu Arg Ala Tyr Leu Glu Gly Thr Cys Val Glu Trp Leu Arg Arg Tyr
 180 185 190
 Leu Glu Asn Gly Lys Glu Thr Leu Gln Arg Thr Asp Ala Pro Lys Thr
 195 200 205
 His Met Thr His His Pro Ile Ser Asp His Glu Ala Thr Leu Arg Cys
 210 215 220
 Trp Ala Leu Ser Phe Tyr Pro Ala Glu Ile Thr Leu Thr Trp Gln Arg
 225 230 235 240
 Asp Gly Glu Asp Gln Thr Gln Asp Thr Glu Leu Val Glu Thr Arg Pro
 245 250 255
 Ala Gly Asp Gly Thr Phe Gln Lys Trp Ala Ala Val Val Val Pro Ser
 260 265 270
 Gly Gln Glu Gln Arg Tyr Thr Cys His Val Gln His Glu Gly Leu Pro
 275 280 285
 Lys Pro Leu Thr Leu Arg Trp Glu Pro Ser Ser Gln Pro Thr Ile Pro
 290 295 300
 Ile Val Gly Ile Ile Ala Gly Leu Val Leu Phe Gly Ala Val Ile Thr
 305 310 315 320
 Gly Ala Val Val Ala Ala Val Met Trp Arg Arg Lys Ser Ser Asp Arg
 325 330 335
 Lys Gly Val Lys Asp Arg Lys Gly Gly Ser Tyr Ser Gln Ala Ala Ser
 340 345 350
 Ser Asp Ser Ala Gln Gly Ser Asp Val Ser Leu Thr Ala Cys Lys Val
 355 360 365 368

*

<210> 1543
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1543
 Met Arg Ser Leu Trp Lys Ala Asn Arg Ala Asp Leu Leu Ile Trp Leu
 1 5 10 15
 Val Thr Phe Thr Ala Thr Ile Leu Leu Asn Leu Asp Leu Gly Leu Glu
 20 25 30
 Asp Ala Val Ile Phe Ser Leu Leu Glu Glu Val Arg Thr Gln Met
 35 40 45 48
 *

<210> 1544
 <211> 121
 <212> PRT
 <213> Homo sapiens

<400> 1544
 Met Lys Ile Phe Lys Cys Tyr Phe Lys His Thr Leu Gln Gln Lys Val
 1 5 10 15
 Phe Ile Leu Phe Leu Thr Leu Trp Leu Leu Ser Leu Leu Lys Leu Leu
 20 25 30
 Asn Val Arg Arg Leu Phe Pro Gln Lys Asp Ile Tyr Leu Val Glu Tyr
 35 40 45
 Ser Leu Ser Thr Ser Pro Phe Val Arg Asn Arg Tyr Thr His Val Lys
 50 55 60
 Asp Glu Val Arg Tyr Glu Val Asn Cys Ser Gly Ile Tyr Glu Gln Glu
 65 70 75 80
 Pro Leu Glu Ile Gly Lys Ser Leu Glu Ile Arg Arg Arg Asp Ile Ile
 85 90 95
 Asp Leu Glu Asp Asp Asp Val Val Ala Met Thr Ser Asp Cys Asp Ile
 100 105 110
 Tyr Gln Thr Leu Lys Gly Tyr Ala *
 115 120

<210> 1545
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1545
 Met Phe Leu Leu Lys Trp Pro Leu Trp Val Leu Gln Tyr Val Val Cys
 1 5 10 15
 Ser Leu Lys Asp Lys Ile His Lys Phe Phe Tyr Ile Glu Arg Val Val
 20 25 30
 Gly Glu Leu Arg Val Leu Pro Gln Gly Trp Met Val Ala Leu Ile Leu
 35 40 45
 Arg Lys Asp Phe Val Leu Pro Ser Pro Ser Asp Val Val Asn Ala Ser
 50 55 60

Gln Pro Gly Gln Val *
65 69

<210> 1546
<211> 58
<212> PRT
<213> Homo sapiens

<400> 1546
Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
1 5 10 15
Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
20 25 30
Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
35 40 45
Cys Cys Val Val Met Ser Pro Leu Pro *
50 55 57

<210> 1547
<211> 65
<212> PRT
<213> Homo sapiens

<400> 1547
Met Trp Leu His Glu Asn Leu Gln Phe Leu Leu Gln Leu Ile Phe His
1 5 10 15
Phe Tyr Trp Thr Val Pro Pro Trp Arg Asp Trp Cys Lys Val Ile Gln
20 25 30
Gln Ala Arg Asp Arg Pro Gly Pro Asn Pro Leu Leu Pro Leu Arg Met
35 40 45
Gly Ala Trp His Leu Pro Gly His Asp Gly Leu Gly Arg Val Cys Thr
50 55 60 64
*

<210> 1548
<211> 78
<212> PRT
<213> Homo sapiens

<400> 1548
Met Phe Ile Ile Phe Leu Ala Phe Ile Ala Leu Lys Arg Ser Lys Ser
1 5 10 15
Val Ile Gly Ala Phe Leu Tyr Leu Ala Ser Ile Phe Leu Ala His Gly
20 25 30
Val Ala Ala His Ile Val Phe Met Ser Ala Phe Tyr Gln Ala Cys Arg
35 40 45
Thr Tyr Leu Trp Trp Ala Leu Cys Glu Asn Leu Arg Met Lys Ser Val
50 55 60
Ser Cys Met Leu Leu Lys Gly Met Ala Cys Leu Leu Thr *

65

70

75

77

<210> 1549
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1549
 Met Leu Tyr Ile Glu Cys Lys Ser His Lys Leu Val Ala Pro Leu Ala
 1 5 10 15
 Val Phe Phe Ala Leu Phe Phe Leu Leu Ile Phe Phe Trp Val Ala Phe
 20 25 30
 Ser Tyr Pro Phe Glu Leu Leu Phe Leu Gln Leu Arg Ser Arg Gln Ala
 35 40 45
 Asp Ile Gly Val Gln *
 50 53

<210> 1550
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1550
 Met Val Asn Thr Trp Leu Ala Ala Cys Cys Thr Val Val Thr Trp Phe
 1 5 10 15
 Pro Lys Met Ser Met Leu Pro Leu Pro Pro Ser Lys Pro Ser Ala Arg
 20 25 30
 Ser Ser Leu Trp Ile Gly Ala Pro Leu Ala Ser Arg Leu Ala Ser Thr
 35 40 45
 Thr Ser Leu Pro Leu Trp Cys Leu Val Glu Thr Trp Pro Arg Tyr Arg
 50 55 60
 Glu Leu Cys Ala Cys *
 65 69

<210> 1551
 <211> 224
 <212> PRT
 <213> Homo sapiens

<400> 1551
 Met Arg Gln Ile Asn Lys Lys Gly Phe Trp Ser Tyr Gly Pro Val Ile
 1 5 10 15
 Leu Val Val Leu Val Val Ala Val Val Ala Ser Ser Val Asn Ser Tyr
 20 25 30
 Tyr Ser Ser Pro Ala Gln Gln Val Pro Lys Asn Pro Ala Leu Glu Ala
 35 40 45
 Phe Leu Ala Gln Phe Ser Gln Leu Glu Asp Lys Phe Pro Gly Gln Ser
 50 55 60
 Ser Phe Leu Trp Gln Arg Gly Arg Lys Phe Leu Gln Lys His Leu Asn
 65 70 75 80

```

Ala Ser Asn Pro Thr Glu Pro Ala Thr Ile Ile Phe Thr Ala Ala Arg
      85                      90                      95
Glu Gly Arg Glu Thr Leu Lys Cys Leu Ser His His Val Ala Asp Ala
      100                      105                      110
Tyr Thr Ser Ser Gln Lys Val Ser Pro Ile Gln Ile Asp Gly Ala Gly
      115                      120                      125
Arg Thr Trp Gln Asp Ser Asp Thr Val Lys Leu Leu Val Asp Leu Glu
      130                      135                      140
Leu Ser Tyr Gly Phe Glu Asn Gly Gln Lys Ala Ala Val Val His His
      145                      150                      155                      160
Phe Glu Ser Phe Pro Ala Gly Ser Thr Leu Ile Phe Tyr Lys Tyr Cys
      165                      170                      175
Asp His Glu Asn Ala Ala Phe Lys Asp Val Ala Leu Val Leu Thr Val
      180                      185                      190
Leu Leu Glu Glu Glu Thr Leu Glu Ala Ser Val Gly Pro Arg Glu Thr
      195                      200                      205
Glu Glu Lys Val Arg Asp Leu Leu Trp Ala Lys Phe Thr Asn Ser *
      210                      215                      220                      223

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<210> 1552
<211> 57
<212> PRT
<213> Homo sapiens

```

```

<400> 1552
Met Arg Gln Lys Phe Leu Lys Pro Leu Leu Ile Leu Leu His Arg Leu
  1      5      10      15
Lys Leu Gly Ser Leu Tyr Thr Pro Ser Ser Val Ala Arg Tyr Asp Ser
      20      25      30
Ser Val Asn Glu Asn Arg Ser Val Asn Ser Ser Ala Tyr Glu Glu Ala
      35      40      45
Lys Glu Leu Met Leu Ser Met Asn *
      50      55      56

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<210> 1553
<211> 241
<212> PRT
<213> Homo sapiens

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```

<400> 1553
Met Ser Cys Val Leu Gly Gly Val Ile Pro Leu Gly Leu Leu Phe Leu
  1      5      10      15
Val Cys Gly Ser Gln Gly Tyr Leu Leu Pro Asn Val Thr Leu Leu Glu
      20      25      30
Glu Leu Leu Ser Lys Tyr Gln His Asn Glu Ser His Ser Arg Val Arg
      35      40      45
Arg Ala Ile Pro Arg Glu Asp Lys Glu Glu Ile Leu Met Leu His Asn
      50      55      60
Lys Leu Arg Gly Gln Val Gln Pro Gln Ala Ser Asn Met Glu Tyr Met
      65      70      75      80
Thr Trp Asp Asp Glu Leu Glu Lys Ser Ala Ala Ala Trp Ala Ser Gln
      85      90      95
Cys Ile Trp Glu His Gly Pro Thr Ser Leu Leu Val Ser Ile Gly Gln

```

```

      100      105      110
Asn Leu Gly Ala His Trp Gly Arg Tyr Arg Ser Pro Gly Phe His Val
      115      120      125
Gln Ser Trp Tyr Asp Glu Val Lys Asp Tyr Thr Tyr Pro Tyr Pro Ser
      130      135      140
Glu Cys Asn Pro Trp Cys Pro Glu Arg Cys Ser Gly Pro Met Cys Thr
      145      150      155      160
His Tyr Thr Gln Ile Val Trp Ala Thr Thr Asn Lys Ile Gly Cys Ala
      165      170      175
Val Asn Thr Cys Arg Lys Met Thr Val Trp Gly Glu Val Trp Glu Asn
      180      185      190
Ala Val Tyr Phe Val Cys Asn Tyr Ser Pro Lys Gly Asn Trp Ile Gly
      195      200      205
Glu Ala Pro Tyr Lys Asn Gly Arg Pro Cys Ser Glu Cys Pro Pro Ser
      210      215      220
Tyr Gly Gly Ser Cys Arg Asn Asn Leu Cys Tyr Arg Glu Glu Thr Tyr
      225      230      235      240
Thr
      241

```

```

<210> 1554
<211> 56
<212> PRT
<213> Homo sapiens

```

```

      <400> 1554
Met Leu Thr Ser Ser Gly Cys Glu Lys His Leu Ser Leu Ala Ser Val
      1      5      10      15
Ser Ser Leu Ser Leu Phe Cys Val Cys Cys Ser Ser Cys Gln Leu Leu
      20      25      30
Trp Glu Asn Glu Cys Glu Arg Gly Ser Gln Arg Gly Trp Pro Pro Gln
      35      40      45
Cys Lys Trp Gly Ser Ala Val *
      50      55

```

```

<210> 1555
<211> 64
<212> PRT
<213> Homo sapiens

```

```

      <400> 1555
Met Tyr Gly Trp Thr Met Thr Ser Thr Ile Ser Cys Val Phe Trp Ala
      1      5      10      15
Cys Pro Gln Arg Lys Lys Gly Leu Cys Lys Arg Glu Gly Val Gly Ser
      20      25      30
Ser Ile Leu Ile His Ser Leu Ala Ala Phe Val Met Phe Asp Cys Asn
      35      40      45
Leu Pro Leu Leu Val Arg Arg Val Arg Arg Ile His Tyr Pro Ala *
      50      55      60      63

```

```

<210> 1556

```

<211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1556
 Met Ser Arg Pro Met Met Thr Ser Ala Ser Trp Thr Ser Val Trp Ser
 1 5 10 15
 Val Phe Val Met Ile Tyr Leu Tyr Phe Glu Arg Lys Tyr Val Leu Pro
 20 25 30
 Leu Leu Gly Val Val Phe Tyr Thr Ile Ile Ser Asn Asp Ala Phe Ala
 35 40 45
 Leu Glu Ser Leu Leu Ser Gly Ile Ser Thr Ser Ala Phe Phe Cys Lys
 50 55 60
 Glu Leu Met Cys Ile Leu *
 65 70

<210> 1557
 <211> 126
 <212> PRT
 <213> Homo sapiens

<400> 1557
 Met Gln Thr His Leu Gly Ala Ser Cys Leu Ser Leu Val Ile Arg Ile
 1 5 10 15
 Ala Leu Leu Phe Leu Val Gln Arg Asp Gly His Leu His Ser Arg Arg
 20 25 30
 Glu Ile Tyr Ala Ile Phe Thr Lys Gly Ser Leu Cys Pro Ala Phe Lys
 35 40 45
 Trp Ala Arg Val Gly Arg Glu Leu Phe Leu His Leu Leu Leu Ser Asn
 50 55 60
 Cys His Gln Leu Lys Ile Ile Leu Ile Pro Lys Cys His Ile Leu Gly
 65 70 75 80
 Trp His Ile Leu Ile Pro Phe Thr Ser Lys Ile Trp Asp Ser Tyr Phe
 85 90 95
 Ile Val Gln Cys Phe Ser His Phe Thr Thr Leu Ala Asn Val Phe Met
 100 105 110
 Glu Glu Asp Asn Pro Val Ser Glu Leu Gln Val Phe Gln *
 115 120 125

<210> 1558
 <211> 135
 <212> PRT
 <213> Homo sapiens

<400> 1558
 Met Lys Gly Ser Ile Phe Thr Leu Phe Leu Phe Ser Val Leu Phe Ala
 1 5 10 15
 Ile Ser Glu Val Arg Ser Lys Glu Ser Val Arg Leu Cys Gly Leu Glu
 20 25 30
 Tyr Ile Arg Thr Val Ile Tyr Ile Cys Ala Ser Ser Arg Trp Arg Arg
 35 40 45
 His Leu Glu Gly Ile Pro Gln Ala Gln Gln Ala Glu Thr Gly Asn Ser


```

      50              55              60
Phe Gln Leu Pro His Lys Arg Glu Phe Ser Glu Glu Asn Pro Ala Gln
65              70              75              80
Asn Leu Pro Lys Val Asp Ala Ser Gly Glu Asp Arg Leu Trp Gly Gly
      85              90              95
Gln Met Pro Thr Glu Glu Leu Trp Lys Ser Lys Lys His Ser Val Met
      100              105              110
Ser Arg Gln Asp Leu Gln Thr Leu Cys Cys Thr Asp Gly Cys Ser Met
      115              120              125
Thr Asp Leu Ser Ala Leu Cys
      130              135

```

```

<210> 1559
<211> 203
<212> PRT
<213> Homo sapiens

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```

      <400> 1559
Met Glu Leu Trp Gly Ala Tyr Leu Leu Leu Cys Leu Phe Ser Leu Leu
1              5              10              15
Thr Gln Val Thr Thr Glu Pro Pro Thr Gln Lys Pro Lys Lys Ile Val
      20              25              30
Asn Ala Lys Lys Asp Val Val Asn Thr Lys Met Phe Glu Glu Leu Lys
      35              40              45
Ser Arg Leu Asp Thr Leu Ala Gln Glu Val Ala Leu Leu Lys Glu Gln
      50              55              60
Gln Ala Leu Gln Thr Val Cys Leu Lys Gly Thr Lys Val His Met Lys
      65              70              75              80
Cys Phe Leu Ala Phe Thr Gln Thr Lys Thr Phe His Glu Ala Ser Glu
      85              90              95
Asp Cys Ile Ser Arg Gly Gly Thr Leu Ser Thr Pro Gln Thr Gly Ser
      100              105              110
Glu Asn Asp Ala Leu Tyr Glu Tyr Leu Arg Gln Ser Val Gly Asn Glu
      115              120              125
Ala Glu Ile Trp Leu Gly Leu Asn Asp Met Ala Ala Glu Gly Thr Trp
      130              135              140
Val Asp Met Thr Gly Ala Arg Ile Ala Tyr Lys Asn Trp Glu Thr Glu
      145              150              155              160
Ile Thr Ala Gln Pro Asp Gly Gly Lys Thr Glu Asn Cys Ala Val Leu
      165              170              175
Ser Gly Ala Ala Asn Gly Lys Trp Phe Asp Lys Arg Cys Arg Asp Gln
      180              185              190
Leu Pro Tyr Ile Cys Gln Phe Gly Ile Val *
      195              200              202

```

```

<210> 1560
<211> 59
<212> PRT
<213> Homo sapiens

```

```

      <400> 1560
Met Met Gly Val Ser Gly Cys Met Val Leu Leu Ala Pro Leu Leu Ala
1              5              10              15

```

```

Arg Arg Ser Gln Ser Ser Leu Trp Lys Gln Phe Glu Lys Cys Ser Ala
      20      25      30
Gly Pro Lys Leu Met Leu Ser Lys Phe Leu Pro Trp Gly Lys Leu Ala
      35      40      45
Met Pro Ser Arg Met Ser Asn Phe Ser Pro *
      50      55      58

```

```

<210> 1561
<211> 50
<212> PRT
<213> Homo sapiens

```

```

<400> 1561
Met Lys Phe Ser Asn Val Leu Cys Thr Cys Leu Leu Ile Leu Gln Lys
 1      5      10      15
Val Lys Leu Phe Tyr Lys Thr Val His Glu Asn Ser Ser Phe Leu Pro
      20      25      30
Cys Phe Ser His Leu Ile Pro Ser Pro Gln Arg Asn Leu Ser Ser Ile
      35      40      45
Phe *
49

```

```

<210> 1562
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1562
Met Leu Phe Ser Ala Val Lys Leu Tyr Cys Cys Gln Phe Trp His Leu
 1      5      10      15
Ile Leu Asn Arg Val Pro Ser Pro Ser Leu Leu Tyr Ser Cys Gly Leu
      20      25      30
Ser Thr Asn Val Leu Asn Thr Thr Val Cys Tyr Val Arg Asp Lys Lys
      35      40      45      48
*

```

```

<210> 1563
<211> 69
<212> PRT
<213> Homo sapiens

```

```

<400> 1563
Met Glu Arg Leu Arg Gly Lys Cys Leu Leu Ile Ile Ala Leu Met Thr
 1      5      10      15
Pro Leu Cys Thr Thr Ile Ser Ser Ser Cys Ile Glu Gly Ser Ala
      20      25      30
Asn Phe Phe Cys Lys Glu Pro Gly Ser Asn Cys Val Phe Glu Ala Leu
      35      40      45
Trp Ala Ile Trp Ser Val Gly Gln Leu Leu Ser Ser Ser Val Val Ala

```

50
His Lys Gln Pro *
65 68

55

60

<210> 1564
<211> 53
<212> PRT
<213> Homo sapiens

<400> 1564
Met Gln Arg Leu Gly Lys Ala Pro Gly Thr Trp Gln Ala Ile Ser Lys
1 5 10 15
Cys Trp Leu Leu Leu Leu Leu Ser Leu Pro Phe Ser Gln Ser Ile Ile
20 25 30
Ile Ser Leu Arg Ala Gly Thr Met Ser Tyr Leu Pro Leu Tyr Phe Pro
35 40 45
Gln Tyr Phe Pro *
50 52

<210> 1565
<211> 236
<212> PRT
<213> Homo sapiens

<400> 1565
Met Pro Arg Arg Gly Leu Ile Leu His Thr Arg Thr His Trp Leu Leu
1 5 10 15
Leu Gly Leu Ala Leu Leu Cys Ser Leu Val Leu Phe Met Tyr Leu Leu
20 25 30
Glu Cys Ala Pro Gln Thr Asp Gly Asn Ala Ser Leu Pro Gly Val Val
35 40 45
Gly Glu Asn Tyr Gly Lys Glu Tyr Tyr Gln Ala Leu Leu Gln Glu Gln
50 55 60
Glu Glu His Tyr Gln Thr Arg Ala Thr Ser Leu Lys Arg Gln Ile Ala
65 70 75 80
Gln Leu Lys Gln Glu Leu Gln Glu Met Ser Glu Lys Met Arg Ser Leu
85 90 95
Gln Glu Arg Arg Asn Val Gly Ala Asn Gly Ile Gly Tyr Gln Ser Asn
100 105 110
Lys Glu Gln Ala Pro Ser Asp Leu Leu Glu Phe Leu His Ser Gln Ile
115 120 125
Asp Lys Ala Glu Val Ser Ile Gly Ala Lys Leu Pro Ser Glu Tyr Gly
130 135 140
Val Ile Pro Phe Glu Ser Phe Thr Leu Met Lys Val Phe Gln Leu Glu
145 150 155 160
Met Gly Leu Thr Arg His Pro Glu Glu Lys Pro Val Arg Lys Asp Lys
165 170 175
Arg Asp Glu Leu Val Glu Val Ile Glu Ala Gly Leu Glu Val Ile Asn
180 185 190
Asn Pro Asp Glu Asp Asp Glu Gln Glu Asp Glu Glu Gly Pro Leu Gly
195 200 205
Glu Lys Leu Ile Phe Asn Glu Asn Asp Phe Val Glu Gly Tyr Tyr Arg
210 215 220

Thr Glu Arg Asp Lys Gly Thr Gln Tyr Glu Leu Phe
 225 230 235 236

<210> 1566
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1566
 Met Thr Ala Gly Ile Met Pro Leu Gly Leu Cys Pro Cys Ser Cys Leu
 1 5 10 15
 Cys Leu His Ser Arg Thr Gly Ala Phe Ser Ala Val His Trp Ser Pro
 20 25 30
 Val Glu Gly Thr Pro Asp Pro Ser Leu Arg Glu Val Ile Ser Lys Gly
 35 40 45
 Cys Phe Ile Thr Val Phe Pro Gln Asn Asp Pro Ile Asp Thr Val Phe
 50 55 60
 Ser Gln Cys Pro Leu Thr Phe Glu His Ile Arg Glu *
 65 70 75 76

<210> 1567
 <211> 104
 <212> PRT
 <213> Homo sapiens

<400> 1567
 Met Leu Ile Gly Leu Leu Ala Trp Leu Gln Thr Val Pro Ala His Gly
 1 5 10 15
 Cys Gln Phe Leu Pro Ile Thr Ser Val Thr Ala Thr Val Tyr His Leu
 20 25 30
 Pro Val His Gln Leu Lys Gly Arg Ser Arg Val Gln Lys Asn Leu Thr
 35 40 45
 Leu Asp Asn Glu Gly Glu Gly Thr Trp Thr Thr Cys Leu Glu Phe Leu
 50 55 60
 Glu Ser Leu Ala Gly Trp Arg Leu Gly Trp Gly Val Ser Arg Gly Val
 65 70 75 80
 Arg Glu Trp Leu Cys Leu Gln Gln Val Ser Leu His Gln Thr Pro Gly
 85 90 95
 Leu Pro His Lys Gln Asp Leu *
 100 103

<210> 1568
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1568
 Met Val Val Asn Thr Met Ile Tyr Phe Phe Ile Phe Thr Tyr Thr Leu
 1 5 10 15
 Ala Lys Arg Ala Arg Val His Ile Asn Lys Asn Gly Asn Lys Ala Leu

```

      20      25      30
Ala Glu Lys Asn Met His Leu Thr Asn His Val Asn Ser *
      35      40      45

```

```

<210> 1569
<211> 50
<212> PRT
<213> Homo sapiens

```

```

<400> 1569
Met Leu Met Met Asp Thr Leu Trp Pro Ile Leu Leu Gln Thr Leu Lys
 1      5      10      15
Val Ile Ser Gln Val Gly His Ala Gly Pro Leu Ala Asn Met Ile His
      20      25      30
Asp Asn Pro Cys Ile Ile Ala Tyr Arg Ile Thr Leu Arg Leu Val Gly
      35      40      45
Pro *
49

```

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<210> 1570
<211> 50
<212> PRT
<213> Homo sapiens

```

```

<400> 1570
Met Val Gly Phe Asp Leu Leu Pro Leu Leu Phe Phe Pro Phe Phe
 1      5      10      15
Pro Ser Leu Ile Phe Phe Pro Phe Phe Ser Ser Pro Ser Pro Ser Phe
      20      25      30
Gln Phe Leu Pro His Gln Glu Lys Ser Gln His Val Phe Pro Pro Asn
      35      40      45
Ala *
49

```

```

<210> 1571
<211> 50
<212> PRT
<213> Homo sapiens

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```

<400> 1571
Met Tyr Leu Trp Val Val Arg Trp Lys Trp Cys Leu Gln Lys Leu Gly
 1      5      10      15
Arg Arg Ile Leu Leu His Ser Leu His Asp Val Phe Ile Ala Asn Met
      20      25      30
Asp Asp Lys Gly Leu Cys Tyr Arg Gly Leu Arg Ala Pro Ser Phe Leu
      35      40      45
Leu *
49

```

<210> 1572
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1572
 Met Ser Ser Gly Arg Asn Phe Gly Phe Cys Phe Gln Trp Leu Pro Trp
 1 5 10 15
 Ala Leu Val Ala Thr Trp Ala Ser Val Thr Val Leu Met Ser Ser His
 20 25 30
 Ser Ser Ser Val Gly Ser Gly Leu Cys Pro Met Asp Phe Cys Ser Ser
 35 40 45
 Ser Arg Arg Leu Phe Ser Arg Phe Ser Ser Ile Ser Phe Leu Leu Ala
 50 55 60
 Ser Leu Leu Leu Ser Ser Ser Thr Lys Ser Val Ala Met Pro Thr *
 65 70 75 79

<210> 1573
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1573
 Met Ile Asp Ile Val Arg Phe Ala Gly Leu Pro Ser Leu Leu Leu His
 1 5 10 15
 Ala Leu Cys Leu Ile Ser Leu Thr Tyr Pro Ser Ser Phe Arg His Ser
 20 25 30
 Ser Tyr Leu Ile Ser Pro Cys Ala Ser Phe Trp Ile Leu Tyr Leu Phe
 35 40 45
 Arg Pro Val *
 50 51

<210> 1574
 <211> 200
 <212> PRT
 <213> Homo sapiens

<400> 1574
 Met Arg Leu Ser Leu Pro Leu Leu Leu Leu Leu Gly Ala Trp Ala
 1 5 10 15
 Ile Pro Gly Gly Leu Gly Val Met Ala Pro Leu Thr Ala Thr Ala Pro
 20 25 30
 Glu Val Asp Asp Glu Glu Met Tyr Ser Ala His Met Pro Ala His Leu
 35 40 45
 Arg Cys Asp Ala Cys Arg Ala Val Ala Tyr Gln Glu Cys Gly Pro Lys
 50 55 60
 Thr Leu Ala Lys Ala Glu Thr Lys Leu His Thr Ser Asn Ser Gly Gly
 65 70 75 80
 Arg Arg Asp Val Ser Glu Leu Val Tyr Thr Asp Val Leu Asp Arg Ser
 85 90 95
 Cys Ser Arg Asn Trp Gln Asp Tyr Gly Val Arg Glu Val Asp Gln Val

```

      100      105      110
Lys Arg Leu Thr Gly Pro Gly Leu Ser Glu Gly Pro Glu Pro Ser Ile
      115      120      125
Ser Val Met Val Thr Gly Gly Pro Trp His Thr Arg Leu Ser Arg Thr
      130      135      140
Cys Leu His Tyr Leu Gly Glu Phe Gly Glu Asp Gln Ile Tyr Glu Ala
      145      150      155      160
His Gln Gln Gly Arg Gly Ala Leu Glu Ala Leu Leu Cys Gly Gly Pro
      165      170      175
Pro Gly Gly Leu Leu Arg Glu Gly Val Ser His Lys Arg Arg Ala Leu
      180      185      190
Val Leu Asp Ser Thr Leu Leu *
      195      199

```

```

<210> 1575
<211> 51
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(51)
<223> Xaa = any amino acid or nothing

```

```

      <400> 1575
Met Leu Leu Gly Phe Gly Asn Val Phe Ile Leu Leu Ile Leu Xaa Thr
  1           5           10           15
Ala Ile Leu Trp Leu Lys Gly Ser Gln Arg Val Pro Glu Glu Pro Gly
      20           25           30
Glu Gln Pro Ile Tyr Met Asn Phe Ser Glu Pro Leu Thr Lys Asp Met
      35           40           45
Ala Thr *
      50

```

```

<210> 1576
<211> 124
<212> PRT
<213> Homo sapiens

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```

      <400> 1576
Met Arg Ile Arg Leu Leu Cys Cys Val Ala Phe Ser Leu Leu Trp Ala
  1           5           10           15
Gly Pro Val Ile Ala Gly Ile Thr Gln Ala Pro Thr Ser Gln Ile Leu
      20           25           30
Ala Ala Gly Arg Arg Met Thr Leu Arg Cys Thr Gln Asp Met Arg His
      35           40           45
Asn Ala Met Tyr Trp Tyr Arg Gln Asp Leu Gly Leu Gly Leu Arg Leu
      50           55           60
Ile His Tyr Ser Asn Thr Ala Gly Thr Thr Gly Lys Gly Glu Val Pro
      65           70           75           80
Asp Gly Tyr Ser Val Ser Arg Ala Asn Thr Asp Asp Phe Pro Leu Thr
      85           90           95
Leu Ala Ser Ala Val Pro Ser Gln Thr Ser Val Tyr Phe Cys Ala Ser
      100           105           110

```

Ser Asp Gly Ala Ser Gly Ser Pro His Thr Gly Glu
 115 120 124

<210> 1577
 <211> 860
 <212> PRT
 <213> Homo sapiens

<400> 1577
 Met Ala Cys Arg Trp Ser Thr Lys Glu Ser Pro Arg Trp Arg Ser Ala
 1 5 10 15
 Leu Leu Leu Leu Phe Leu Ala Gly Val Tyr Gly Asn Gly Ala Leu Ala
 20 25 30
 Glu His Ser Glu Asn Val His Ile Ser Gly Val Ser Thr Ala Cys Gly
 35 40 45
 Glu Thr Pro Glu Gln Ile Arg Ala Pro Ser Gly Ile Ile Thr Ser Pro
 50 55 60
 Gly Trp Pro Ser Glu Tyr Pro Ala Lys Ile Asn Cys Ser Trp Phe Ile
 65 70 75 80
 Arg Ala Asn Pro Gly Glu Ile Ile Thr Ile Ser Phe Gln Asp Phe Asp
 85 90 95
 Ile Gln Gly Ser Arg Arg Cys Asn Leu Asp Trp Leu Thr Ile Glu Thr
 100 105 110
 Tyr Lys Asn Ile Glu Ser Tyr Arg Ala Cys Gly Ser Thr Ile Pro Pro
 115 120 125
 Pro Tyr Ile Ser Ser Gln Asp His Ile Trp Ile Arg Phe His Ser Asp
 130 135 140
 Asp Asn Ile Ser Arg Lys Gly Phe Arg Leu Ala Tyr Phe Ser Gly Lys
 145 150 155 160
 Ser Glu Glu Pro Asn Cys Ala Cys Asp Gln Phe Arg Cys Gly Asn Gly
 165 170 175
 Lys Cys Ile Pro Glu Ala Trp Lys Cys Asn Asn Met Asp Glu Cys Gly
 180 185 190
 Asp Arg Ser Asp Glu Glu Ile Cys Ala Lys Glu Ala Asn Pro Pro Thr
 195 200 205
 Ala Ala Ala Phe Gln Pro Cys Ala Tyr Asn Gln Phe Gln Cys Leu Ser
 210 215 220
 Arg Phe Thr Lys Val Tyr Thr Cys Leu Pro Glu Ser Leu Lys Cys Asp
 225 230 235 240
 Gly Asn Ile Asp Cys Leu Asp Leu Gly Asp Glu Ile Asp Cys Asp Val
 245 250 255
 Pro Thr Cys Gly Gln Trp Leu Lys Tyr Phe Tyr Gly Thr Phe Asn Ser
 260 265 270
 Pro Asn Tyr Pro Asp Phe Tyr Pro Pro Gly Ser Asn Cys Thr Trp Leu
 275 280 285
 Ile Asp Thr Gly Asp His Arg Lys Val Ile Leu Arg Phe Thr Asp Phe
 290 295 300
 Lys Leu Asp Gly Thr Gly Tyr Gly Asp Tyr Val Lys Ile Tyr Asp Gly
 305 310 315 320
 Leu Glu Glu Asn Pro His Lys Leu Leu Arg Val Leu Thr Ala Phe Asp
 325 330 335
 Ser His Ala Pro Leu Thr Val Val Ser Ser Gly Gln Ile Arg Val
 340 345 350
 His Phe Cys Ala Asp Lys Val Asn Ala Ala Arg Gly Phe Asn Ala Thr
 355 360 365
 Tyr Gln Val Asp Gly Phe Cys Leu Pro Trp Glu Ile Pro Cys Gly Gly

370	375	380
Asn Trp Gly Cys Tyr Thr	Glu Gln Gln Arg Cys Asp Gly Tyr Trp His	
385	390	395
Cys Pro Asn Gly Arg Asp	Glu Thr Asn Cys Thr Met Cys Gln Lys Glu	400
	405	410
Glu Phe Pro Cys Ser Arg	Asn Gly Val Cys Tyr Pro Arg Ser Asp Arg	415
	420	425
Cys Asn Tyr Gln Asn His Cys	Pro Asn Gly Ser Asp Glu Lys Asn Cys	430
	435	440
Phe Phe Cys Gln Pro Gly	Asn Phe His Cys Lys Asn Asn Arg Cys Val	445
	450	455
Phe Glu Ser Trp Val Cys	Asp Ser Gln Asp Asp Cys Gly Asp Gly Ser	460
465	470	475
Asp Glu Glu Asn Cys Pro Val	Ile Val Pro Thr Arg Val Ile Thr Ala	480
	485	490
Ala Val Ile Gly Ser Leu	Ile Cys Gly Leu Leu Leu Val Ile Ala Leu	495
	500	505
Gly Cys Thr Cys Lys Leu	Tyr Ser Leu Arg Met Phe Glu Arg Arg Ser	510
	515	520
Phe Glu Thr Gln Leu Ser	Arg Val Glu Ala Glu Leu Leu Arg Arg Glu	525
	530	535
Ala Pro Pro Ser Tyr Gly	Gln Leu Ile Ala Gln Gly Leu Ile Pro Pro	540
545	550	555
Val Glu Asp Phe Pro Val	Cys Ser Pro Asn Gln Ala Ser Val Leu Glu	560
	565	570
Asn Leu Arg Leu Ala Val	Arg Ser Gln Leu Gly Phe Thr Ser Val Arg	575
	580	585
Leu Pro Met Ala Gly Arg	Ser Ser Asn Ile Trp Asn Arg Ile Phe Asn	590
	595	600
Phe Ala Arg Ser Arg His	Ser Gly Ser Leu Ala Leu Val Ser Ala Asp	605
	610	615
Gly Asp Glu Val Val Pro	Ser Gln Ser Thr Ser Arg Glu Pro Glu Arg	620
625	630	635
Asn His Thr His Arg Ser	Leu Phe Ser Val Glu Ser Asp Asp Thr Asp	640
	645	650
Thr Glu Asn Glu Arg Arg	Asp Met Ala Gly Ala Ser Gly Gly Val Ala	655
	660	665
Ala Pro Leu Pro Gln Lys	Val Pro Pro Thr Thr Ala Val Glu Ala Thr	670
	675	680
Val Gly Ala Cys Ala Ser	Ser Ser Thr Gln Ser Thr Arg Gly Gly His	685
	690	695
Ala Asp Asn Gly Arg Asp	Val Thr Ser Val Glu Pro Pro Ser Val Ser	700
705	710	715
Pro Ala Arg His Gln Leu	Thr Ser Ala Leu Ser Arg Met Thr Gln Gly	720
	725	730
Leu Arg Trp Val Arg Phe	Thr Leu Gly Arg Ser Ser Ser Leu Ser Gln	735
	740	745
Asn Gln Ser Pro Leu Arg	Gln Leu Asp Asn Gly Val Ser Gly Arg Glu	750
	755	760
Asp Asp Asp Asp Val Glu	Met Leu Ile Pro Ile Ser Asp Gly Ser Ser	765
	770	775
Asp Phe Asp Val Asn Asp	Cys Ser Arg Pro Leu Leu Asp Leu Ala Ser	780
	785	790
Asp Gln Gly Gln Gly Leu	Arg Gln Pro Tyr Asn Ala Thr Asn Pro Gly	800
	805	810
Val Arg Pro Ser Asn Arg	Asp Gly Pro Cys Glu Arg Cys Gly Ile Val	815
	820	825
His Thr Ala Gln Ile Pro	Asp Thr Cys Leu Glu Val Thr Leu Lys Asn	830
	835	840
		845

Glu Thr Ser Asp Asp Glu Ala Leu Leu Leu Cys *
 850 855 859

<210> 1578
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1578
 Met Tyr Gly Met Leu Glu Trp Pro Ile Ser Met Tyr Phe Val Ala Phe
 1 5 10 15
 Leu His Cys Phe Leu Cys Ser Gly Gly Asn Leu Gly Asp Ser Phe Gln
 20 25 30
 Ala Leu Pro Glu Leu Cys Ala Asn Cys Ser Ser Ser Pro Arg Val Leu
 35 40 45
 Cys Cys Val Val Met Ser Pro Leu Pro *
 50 55 57

<210> 1579
 <211> 572
 <212> PRT
 <213> Homo sapiens

<400> 1579
 Met Arg Arg Arg Ser Arg Met Leu Leu Cys Phe Ala Phe Leu Trp Val
 1 5 10 15
 Leu Gly Ile Ala Tyr Tyr Met Tyr Ser Gly Gly Gly Ser Ala Leu Ala
 20 25 30
 Gly Gly Ala Gly Gly Gly Ala Gly Arg Lys Glu Asp Trp Asn Glu Ile
 35 40 45
 Asp Pro Ile Lys Lys Lys Asp Leu His His Ser Asn Gly Glu Glu Lys
 50 55 60
 Ala Gln Ser Met Glu Thr Leu Pro Pro Gly Lys Val Arg Trp Pro Asp
 65 70 75 80
 Phe Asn Gln Glu Ala Tyr Val Gly Gly Thr Met Val Arg Ser Gly Gln
 85 90 95
 Asp Pro Tyr Ala Arg Asn Lys Phe Asn Gln Val Glu Ser Asp Lys Leu
 100 105 110
 Arg Met Asp Arg Ala Ile Pro Asp Thr Arg His Asp Gln Cys Gln Arg
 115 120 125
 Lys Gln Trp Arg Val Asp Leu Pro Ala Thr Ser Val Val Ile Thr Phe
 130 135 140
 His Asn Glu Ala Arg Ser Ala Leu Leu Arg Thr Val Val Ser Val Leu
 145 150 155 160
 Lys Lys Ser Pro Pro His Leu Ile Lys Glu Ile Ile Leu Val Asp Asp
 165 170 175
 Tyr Ser Asn Asp Pro Glu Asp Gly Ala Leu Leu Gly Lys Ile Glu Lys
 180 185 190
 Val Arg Val Leu Arg Asn Asp Arg Arg Glu Gly Leu Met Arg Ser Arg
 195 200 205
 Val Arg Gly Ala Asp Ala Ala Gln Ala Lys Val Leu Thr Phe Leu Asp
 210 215 220
 Ser His Cys Glu Cys Asn Glu His Trp Leu Glu Pro Leu Leu Glu Arg

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225          230          235          240
Val Ala Glu Asp Arg Thr Arg Val Val Ser Pro Ile Ile Asp Val Ile
          245          250          255
Asn Met Asp Asn Phe Gln Tyr Val Gly Ala Ser Ala Asp Leu Lys Gly
          260          265          270
Gly Phe Asp Trp Asn Leu Val Phe Lys Trp Asp Tyr Met Thr Pro Glu
          275          280          285
Gln Arg Arg Ser Arg Gln Gly Asn Pro Val Ala Pro Ile Lys Thr Pro
          290          295          300
Met Ile Ala Gly Gly Leu Phe Val Met Asp Lys Phe Tyr Phe Glu Glu
305          310          315          320
Leu Gly Lys Tyr Asp Met Met Met Asp Val Trp Gly Gly Glu Asn Leu
          325          330          335
Glu Ile Ser Phe Arg Val Trp Gln Cys Gly Gly Ser Leu Glu Ile Ile
          340          345          350
Pro Cys Ser Arg Val Gly His Val Phe Arg Lys Gln His Pro Tyr Thr
          355          360          365
Phe Pro Gly Gly Ser Gly Thr Val Phe Ala Arg Asn Thr Arg Arg Ala
          370          375          380
Ala Glu Val Trp Met Asp Glu Tyr Lys Asn Phe Tyr Tyr Ala Ala Val
385          390          395          400
Pro Ser Ala Arg Asn Val Pro Tyr Gly Asn Ile Gln Ser Arg Leu Glu
          405          410          415
Leu Arg Lys Lys Leu Ser Cys Lys Pro Phe Lys Trp Tyr Leu Glu Asn
          420          425          430
Val Tyr Pro Glu Leu Arg Val Pro Asp His Gln Asp Ile Ala Phe Gly
          435          440          445
Ala Leu Gln Gln Gly Thr Asn Cys Leu Asp Thr Leu Gly His Phe Ala
          450          455          460
Asp Gly Val Val Gly Val Tyr Glu Cys His Asn Ala Gly Gly Asn Gln
465          470          475          480
Glu Trp Ala Leu Thr Lys Glu Lys Ser Val Lys His Met Asp Leu Cys
          485          490          495
Leu Thr Val Val Asp Arg Ala Pro Gly Ser Leu Ile Lys Leu Gln Gly
          500          505          510
Cys Arg Glu Asn Asp Ser Arg Gln Lys Trp Glu Gln Ile Glu Gly Asn
          515          520          525
Ser Lys Leu Arg His Val Gly Ser Asn Leu Cys Leu Asp Ser Arg Thr
          530          535          540
Ala Lys Ser Gly Gly Leu Ser Val Glu Val Cys Gly Pro Ala Leu Ser
545          550          555          560
Gln Gln Trp Lys Phe Thr Leu Asn Leu Gln Gln *
          565          570 571

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<210> 1580
<211> 77
<212> PRT
<213> Homo sapiens

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<400> 1580
Met Glu Arg Pro Leu Cys Ser His Leu Cys Ser Cys Leu Ala Met Leu
 1          5          10          15
Ala Leu Leu Ser Pro Leu Ser Leu Ala Gln Tyr Asp Ser Trp Pro His
          20          25          30
Tyr Pro Glu Tyr Phe Gln Gln Pro Ala Pro Glu Tyr His Gln Pro Gln
          35          40          45

```

Ala Pro Ala Asn Val Ala Lys Ile Gln Leu Arg Leu Ala Gly Gln Lys
 50 55 60
 Arg Lys His Ser Glu Gly Pro Gly Gly Gly Val Leu *
 65 70 75 76

<210> 1581
 <211> 494
 <212> PRT
 <213> Homo sapiens

<400> 1581
 Met Gly Ser Leu Gln Pro Leu Ala Thr Leu Tyr Leu Leu Gly Met Leu
 1 5 10 15
 Val Ala Ser Cys Leu Gly Arg Leu Ser Trp Tyr Asp Pro Asp Phe Gln
 20 25 30
 Ala Arg Leu Thr Arg Ser Asn Ser Lys Cys Gln Gly Gln Leu Glu Val
 35 40 45
 Tyr Leu Lys Asp Gly Trp His Met Val Cys Ser Gln Ser Trp Gly Arg
 50 55 60
 Ser Ser Lys Gln Trp Glu Asp Pro Ser Gln Ala Ser Lys Val Cys Gln
 65 70 75 80
 Arg Leu Asn Cys Gly Val Pro Leu Ser Leu Gly Pro Phe Leu Val Thr
 85 90 95
 Tyr Thr Pro Gln Ser Ser Ile Ile Cys Tyr Gly Gln Leu Gly Ser Phe
 100 105 110
 Ser Asn Cys Ser His Ser Arg Asn Asp Met Cys His Ser Leu Gly Leu
 115 120 125
 Thr Cys Leu Glu Pro Gln Lys Thr Thr Pro Pro Thr Thr Arg Pro Pro
 130 135 140
 Pro Thr Thr Thr Pro Glu Pro Thr Ala Pro Pro Arg Leu Gln Leu Val
 145 150 155 160
 Ala Gln Ser Gly Gly Gln His Cys Ala Gly Val Val Glu Phe Tyr Ser
 165 170 175
 Gly Ser Leu Gly Gly Thr Ile Ser Tyr Glu Ala Gln Asp Lys Thr Gln
 180 185 190
 Asp Leu Glu Asn Phe Leu Cys Asn Asn Leu Gln Cys Gly Ser Phe Leu
 195 200 205
 Lys His Leu Pro Glu Thr Glu Ala Gly Arg Ala Gln Asp Pro Gly Glu
 210 215 220
 Pro Arg Glu His Gln Pro Leu Pro Ile Gln Trp Lys Ile Gln Asn Ser
 225 230 235 240
 Ser Cys Thr Ser Leu Glu His Cys Phe Arg Lys Ile Lys Pro Gln Lys
 245 250 255
 Ser Gly Arg Val Leu Ala Leu Leu Cys Ser Gly Phe Gln Pro Lys Val
 260 265 270
 Gln Ser Arg Leu Val Gly Gly Ser Ser Ile Cys Glu Gly Thr Val Glu
 275 280 285
 Val Arg Gln Gly Ala Gln Trp Ala Ala Leu Cys Asp Ser Ser Ser Ala
 290 295 300
 Arg Ser Ser Leu Arg Trp Glu Glu Val Cys Arg Glu Gln Gln Cys Gly
 305 310 315 320
 Ser Val Asn Ser Tyr Arg Val Leu Asp Ala Gly Asp Pro Thr Ser Arg
 325 330 335
 Gly Leu Phe Cys Pro His Gln Lys Leu Ser Gln Cys His Glu Leu Trp
 340 345 350
 Glu Arg Asn Ser Tyr Cys Lys Lys Val Phe Val Thr Cys Gln Asp Pro

```

      355      360      365
Asn Pro Ala Gly Leu Ala Ala Gly Thr Val Ala Ser Ile Ile Leu Ala
370      375      380
Leu Val Leu Leu Val Val Leu Leu Val Val Cys Gly Pro Leu Ala Tyr
385      390      395      400
Lys Lys Leu Val Lys Lys Phe Arg Gln Lys Lys Gln Arg Gln Trp Ile
      405      410      415
Gly Pro Thr Gly Met Asn Gln Asn Met Ser Phe His Arg Asn His Thr
      420      425      430
Ala Thr Val Arg Ser His Ala Glu Asn Pro Thr Ala Ser His Val Asp
      435      440      445
Asn Glu Tyr Ser Gln Pro Pro Arg Asn Ser Arg Leu Ser Ala Tyr Pro
      450      455      460
Ala Leu Glu Gly Ala Leu His Arg Ser Ser Met Gln Pro Asp Asn Ser
      465      470      475      480
Ser Asp Ser Asp Tyr Asp Leu His Gly Ala Gln Arg Leu *
      485      490      493

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<210> 1582
<211> 329
<212> PRT
<213> Homo sapiens

```

```

      <400> 1582
Met Gln Gly Leu Cys Ile Ser Val Ala Val Phe Leu His Tyr Phe Leu
1      5      10      15
Leu Val Ser Phe Thr Trp Met Gly Leu Glu Ala Phe His Met Tyr Leu
      20      25      30
Ala Leu Val Lys Val Phe Asn Thr Tyr Ile Arg Lys Tyr Ile Leu Lys
      35      40      45
Phe Cys Ile Val Gly Trp Gly Val Pro Ala Val Val Val Thr Ile Ile
      50      55      60
Leu Thr Ile Ser Pro Asp Asn Tyr Gly Leu Gly Ser Tyr Gly Lys Phe
      65      70      75      80
Pro Asn Gly Ser Pro Asp Asp Phe Cys Trp Ile Asn Asn Asn Ala Val
      85      90      95
Phe Tyr Ile Thr Val Val Gly Tyr Phe Cys Val Ile Phe Leu Leu Asn
      100      105      110
Val Ser Met Phe Ile Val Val Leu Val Gln Leu Cys Arg Ile Lys Lys
      115      120      125
Lys Lys Gln Leu Gly Ala Gln Arg Lys Thr Ser Ile Gln Asp Leu Arg
      130      135      140
Ser Ile Ala Gly Leu Thr Phe Leu Leu Gly Ile Thr Trp Gly Phe Ala
      145      150      155      160
Phe Phe Ala Trp Gly Pro Val Asn Val Thr Phe Met Tyr Leu Phe Ala
      165      170      175
Ile Phe Asn Thr Leu Gln Gly Phe Phe Ile Phe Ile Phe Tyr Cys Val
      180      185      190
Ala Lys Glu Asn Val Arg Lys Gln Trp Arg Arg Tyr Leu Cys Cys Gly
      195      200      205
Lys Leu Arg Leu Ala Glu Asn Ser Asp Trp Ser Lys Thr Ala Thr Asn
      210      215      220
Gly Leu Lys Lys Gln Thr Val Asn Gln Gly Val Ser Ser Ser Ser Asn
      225      230      235      240
Ser Leu Gln Ser Ser Ser Asn Ser Thr Asn Ser Thr Thr Leu Leu Val
      245      250      255

```

```

Asn Asn Asp Cys Ser Val His Ala Ser Gly Asn Gly Asn Ala Ser Thr
    260                265                270
Glu Arg Asn Gly Val Ser Phe Ser Val Gln Asn Gly Asp Val Cys Leu
    275                280                285
His Asp Phe Thr Gly Lys Gln His Met Phe Asn Glu Lys Glu Asp Ser
    290                295                300
Cys Asn Gly Lys Gly Arg Met Ala Leu Arg Arg Thr Ser Lys Arg Gly
    305                310                315                320
Ser Leu His Phe Ile Glu Gln Met *
                325                328

```

```

<210> 1583
<211> 49
<212> PRT
<213> Homo sapiens

```

```

<400> 1583
Met Gly Met Gly Arg Leu Leu Pro Met Ala Trp Val Leu Ala Gly Ile
  1          5          10          15
Pro Thr Gly Ala Gln Gln Ser Trp Arg Arg Pro Trp Ser Gly Ser Ala
          20          25          30
Pro Arg Cys Ala Ser Cys Gly Ser Ala Trp Arg Cys Cys Ala Val Arg
          35          40          45          48
*
```

```

<210> 1584
<211> 671
<212> PRT
<213> Homo sapiens

```

```

<400> 1584
Met Ile Ala Ser Cys Leu Cys Tyr Leu Leu Leu Pro Ala Thr Arg Leu
  1          5          10          15
Phe Arg Ala Leu Ser Asp Ala Phe Phe Thr Cys Arg Lys Asn Val Leu
          20          25          30
Leu Ala Asn Ser Ser Ser Pro Gln Val Glu Gly Asp Phe Ala Met Ala
          35          40          45
Pro Arg Gly Pro Glu Gln Glu Cys Glu Gly Leu Leu Gln Gln Trp
          50          55          60
Arg Glu Glu Gly Leu Ser Gln Val Leu Ser Thr Ala Ser Glu Gly Pro
          65          70          75          80
Leu Ile Asp Lys Gly Leu Ala Gln Ser Ser Leu Ala Leu Leu Met Asp
          85          90          95
Asn Pro Gly Glu Glu Asn Ala Ala Ser Glu Asp Arg Trp Ser Ser Arg
          100          105          110
Gln Leu Ser Asp Leu Arg Ala Ala Glu Asn Leu Asp Glu Pro Phe Pro
          115          120          125
Glu Met Leu Gly Glu Glu Pro Leu Leu Glu Val Glu Gly Val Glu Gly
          130          135          140
Ser Met Trp Ala Ala Ile Pro Met Gln Ser Glu Pro Gln Tyr Ala Asp
          145          150          155          160
Cys Ala Ala Leu Pro Val Gly Ala Leu Ala Thr Glu Gln Trp Glu Glu

```

[illegible]

Leu Trp Ala Ala Asn Gly Leu Pro Asn Pro Phe Cys Ser Ser Asp His
 645 650 655
 Leu Cys Leu Leu Ala Ser Leu Gly Met Glu Val Thr Ala Pro *
 660 665 670

<210> 1585
 <211> 318
 <212> PRT
 <213> Homo sapiens

<400> 1585
 Met Met Cys Leu Lys Ile Leu Arg Ile Ser Leu Ala Ile Leu Ala Gly
 1 5 10 15
 Trp Ala Leu Cys Ser Ala Asn Ser Glu Leu Gly Trp Thr Arg Lys Lys
 20 25 30
 Ser Leu Val Glu Arg Glu His Leu Asn Gln Val Leu Leu Glu Gly Glu
 35 40 45
 Arg Cys Trp Leu Gly Ala Lys Val Arg Arg Pro Arg Ala Ser Pro Gln
 50 55 60
 His His Leu Phe Gly Val Tyr Pro Ser Arg Ala Gly Asn Tyr Leu Arg
 65 70 75 80
 Pro Tyr Pro Val Gly Glu Gln Glu Ile His His Thr Gly Arg Ser Lys
 85 90 95
 Pro Asp Thr Glu Gly Asn Ala Val Ser Leu Val Pro Pro Asp Leu Thr
 100 105 110
 Glu Asn Pro Ala Gly Leu Arg Gly Ala Val Glu Glu Pro Ala Ala Pro
 115 120 125
 Trp Val Gly Asp Ser Pro Ile Gly Gln Ser Glu Leu Leu Gly Asp Asp
 130 135 140
 Asp Ala Tyr Leu Gly Asn Gln Arg Ser Lys Glu Ser Leu Gly Glu Ala
 145 150 155 160
 Gly Ile Gln Lys Gly Ser Ala Met Ala Ala Thr Thr Thr Thr Ala Ile
 165 170 175
 Phe Thr Thr Leu Asn Glu Pro Lys Pro Glu Thr Gln Arg Arg Gly Trp
 180 185 190
 Ala Lys Ser Arg Gln Arg Arg Gln Val Trp Lys Arg Arg Ala Glu Asp
 195 200 205
 Gly Gln Gly Asp Ser Gly Ile Ser Ser His Phe Gln Pro Trp Pro Lys
 210 215 220
 His Ser Leu Lys His Arg Val Lys Lys Ser Pro Pro Glu Glu Ser Asn
 225 230 235 240
 Gln Asn Gly Gly Glu Gly Ser Tyr Arg Glu Ala Glu Thr Phe Asn Ser
 245 250 255
 Gln Val Gly Leu Pro Ile Leu Tyr Phe Ser Gly Arg Arg Glu Arg Leu
 260 265 270
 Leu Leu Arg Pro Glu Val Leu Ala Glu Ile Pro Arg Glu Ala Phe Thr
 275 280 285
 Val Glu Ala Trp Val Lys Pro Glu Gly Gly Gln Asn Asn Pro Ala Ile
 290 295 300
 Ile Ala Gly Asn Thr Leu Leu Leu Gly Phe Leu Lys Ser *
 305 310 315 317

<210> 1586
 <211> 80

<212> PRT

<213> Homo sapiens

<400> 1586

```

Met Ile Ala Leu Thr Gln Leu Leu Thr Phe Ile Leu Ser Cys Asn Ser
 1           5           10           15
Ser Leu Leu His Ile Phe Pro Phe Cys Glu Gln Val Leu Val Glu Asn
           20           25           30
Gly Thr Lys Ala Gly His Ser Leu Leu Met Asp Ala Arg Asp Leu Val
           35           40           45
Leu Lys Gly Lys Glu Lys Ser Pro Leu Asp Pro Arg Pro Gly Phe Val
           50           55           60
Phe Ala Pro Val Ser Ile Thr Ser Ala Cys Pro Thr Thr Arg Ile *
 65           70           75           79

```

<210> 1587

<211> 316

<212> PRT

<213> Homo sapiens

<400> 1587

```

Met Phe Phe Gly Ser Ala Ala Leu Gly Thr Leu Thr Gly Leu Ile Ser
 1           5           10           15
Ala Leu Val Leu Lys His Ile Asp Leu Arg Lys Thr Pro Ser Leu Glu
           20           25           30
Phe Gly Met Met Ile Ile Phe Ala Tyr Leu Pro Tyr Gly Leu Ala Glu
           35           40           45
Gly Ile Ser Leu Ser Gly Ile Met Ala Ile Leu Phe Ser Gly Ile Val
           50           55           60
Met Ser His Tyr Thr His His Asn Leu Ser Pro Val Thr Gln Ile Leu
 65           70           75           80
Met Gln Gln Thr Leu Arg Thr Val Ala Phe Leu Cys Glu Thr Cys Val
           85           90           95
Phe Ala Phe Leu Gly Leu Ser Ile Phe Ser Phe Pro His Lys Phe Glu
           100          105          110
Ile Ser Phe Val Ile Trp Cys Ile Val Leu Val Leu Phe Gly Arg Ala
           115          120          125
Val Asn Ile Phe Pro Leu Ser Tyr Leu Leu Asn Phe Phe Arg Asp His
           130          135          140
Lys Ile Thr Pro Lys Met Met Phe Ile Met Trp Phe Ser Gly Leu Arg
145           150          155          160
Gly Ala Ile Pro Tyr Ala Leu Ser Leu His Leu Asp Leu Glu Pro Met
           165          170          175
Glu Lys Arg Gln Leu Ile Gly Thr Thr Ile Val Ile Val Leu Phe
           180          185          190
Thr Ile Leu Leu Leu Gly Gly Ser Thr Met Pro Leu Ile Arg Leu Met
           195          200          205
Asp Ile Glu Asp Ala Lys Ala His Arg Arg Asn Lys Lys Asp Val Asn
210          215          220
Leu Ser Lys Thr Glu Lys Met Gly Asn Thr Val Glu Ser Glu His Leu
225          230          235          240
Ser Glu Leu Thr Glu Glu Glu Tyr Glu Ala His Tyr Ile Arg Arg Gln
           245          250          255
Asp Leu Lys Gly Phe Val Trp Leu Asp Ala Lys Tyr Leu Asn Pro Phe
260          265          270

```

```

Phe Thr Arg Arg Leu Thr Gln Glu Asp Leu His His Gly Arg Ile Gln
      275                280                285
Met Lys Thr Leu Thr Asn Lys Trp Tyr Glu Glu Val Arg Gln Gly Pro
      290                295                300
Ser Gly Ser Glu Asp Asp Glu Gln Glu Leu Leu *
305                310                315

```

```

<210> 1588
<211> 53
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(53)
<223> Xaa = any amino acid or nothing

```

```

<400> 1588
Met Cys Ser Leu Met Phe Gly Ser Ser Val Phe Val Cys Phe Pro Pro
 1          5          10          15
Cys Val Pro Leu Pro Ala Pro His Ser Gly Gly Pro Pro His Arg Ala
      20          25          30
Gly Arg Ser Val Phe Ser Ala Met Lys Leu Gly Lys Xaa Arg Ser His
      35          40          45
Lys Glu Glu Pro Gln
      50          53

```

```

<210> 1589
<211> 437
<212> PRT
<213> Homo sapiens

```

```

<400> 1589
Met Leu Lys Val Ser Ala Val Leu Cys Val Cys Ala Ala Ala Trp Cys
 1          5          10          15
Ser Gln Ser Leu Ala Ala Ala Ala Val Ala Ala Ala Gly Gly Arg
      20          25          30
Ser Asp Gly Gly Asn Phe Leu Asp Asp Lys Gln Trp Leu Thr Thr Ile
      35          40          45
Ser Gln Tyr Asp Lys Glu Val Gly Gln Trp Asn Lys Phe Arg Asp Glu
      50          55          60
Val Glu Asp Asp Tyr Phe Arg Thr Trp Ser Pro Gly Lys Pro Phe Asp
      65          70          75          80
Gln Ala Leu Asp Pro Ala Lys Asp Pro Cys Leu Lys Met Lys Cys Ser
      85          90          95
Arg His Lys Val Cys Ile Ala Gln Asp Ser Gln Thr Ala Val Cys Ile
      100          105          110
Ser His Arg Arg Leu Thr His Arg Met Lys Glu Ala Gly Val Asp His
      115          120          125
Arg Gln Trp Arg Gly Pro Ile Leu Ser Thr Cys Lys Gln Cys Pro Val
      130          135          140
Val Tyr Pro Ser Pro Val Cys Gly Ser Asp Gly His Thr Tyr Ser Phe
      145          150          155          160
Gln Cys Lys Leu Glu Tyr Gln Ala Cys Val Leu Gly Lys Gln Ile Ser

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165      170      175
Val Lys Cys Glu Gly His Cys Pro Cys Pro Ser Asp Lys Pro Thr Ser
180      185      190
Thr Ser Arg Asn Val Lys Arg Ala Cys Ser Asp Leu Glu Phe Arg Glu
195      200      205
Val Ala Asn Arg Leu Arg Asp Trp Phe Lys Ala Leu His Glu Ser Gly
210      215      220
Ser Gln Asn Lys Lys Thr Lys Thr Leu Leu Arg Pro Glu Arg Ser Arg
225      230      235      240
Phe Asp Thr Ser Ile Leu Pro Ile Cys Lys Asp Ser Leu Gly Trp Met
245      250      255
Phe Asn Arg Leu Asp Thr Asn Tyr Asp Leu Leu Leu Asp Gln Ser Glu
260      265      270
Leu Arg Ser Ile Tyr Leu Asp Lys Asn Glu Gln Cys Thr Lys Ala Phe
275      280      285
Phe Asn Ser Cys Asp Thr Tyr Lys Asp Ser Leu Ile Ser Asn Asn Glu
290      295      300
Trp Cys Tyr Cys Phe Gln Arg Gln Gln Asp Pro Pro Cys Gln Thr Glu
305      310      315      320
Leu Ser Asn Ile Gln Lys Arg Gln Gly Val Lys Lys Leu Leu Gly Gln
325      330      335
Tyr Ile Pro Leu Cys Asp Glu Asp Gly Tyr Tyr Lys Pro Thr Gln Cys
340      345      350
His Gly Ser Val Gly Gln Cys Trp Cys Val Asp Arg Tyr Gly Asn Glu
355      360      365
Val Met Gly Ser Arg Ile Asn Gly Val Ala Asp Cys Ala Ile Asp Phe
370      375      380
Glu Ile Ser Gly Asp Phe Ala Ser Gly Asp Phe His Glu Trp Thr Asp
385      390      395      400
Asp Glu Asp Asp Glu Asp Asp Ile Met Asn Asp Glu Asp Glu Ile Glu
405      410      415
Asp Asp Asp Glu Asp Glu Gly Asp Asp Asp Asp Gly Gly Asp Asp His
420      425      430
Asp Val Tyr Ile *
435 436

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<210> 1590
<211> 49
<212> PRT
<213> Homo sapiens

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<400> 1590
Met Phe Gln Ile Tyr Phe Ser Phe Cys Gln Leu Cys Phe Ile Trp Ser
1      5      10      15
Cys Phe Phe Asn Ser Arg Glu Thr Phe Asn Glu Ile Tyr Lys Phe Phe
20      25      30
Leu Lys Ser Val Met Val Arg Lys Ile Phe Glu Cys His Lys Met Ser
35      40      45      48
*

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<210> 1591
<211> 73
<212> PRT

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<213> Homo sapiens

<400> 1591

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Met Ser Leu Asn Val Leu Leu Ala Leu Phe Cys Leu Leu Leu Ala Lys
 1          5          10          15
Glu Arg Thr Thr Thr Lys Arg Cys Ile Ser Cys Leu Pro Phe Ser Thr
          20          25          30
Phe Phe Ser Phe Gly Pro Leu Gln Lys Val Thr Asp Pro Ser Ser Trp
          35          40          45
Ala Leu Ala Phe Ser Val Cys Gln Ala Cys Thr Arg Ser Glu Leu Pro
          50          55          60
Gly Ala Leu Arg Thr Arg Gly Ser Thr
65          70          73

```

<210> 1592

<211> 62

<212> PRT

<213> Homo sapiens

<400> 1592

```

Met Tyr Phe Ser Leu Ile Phe Leu Val Phe Phe Phe Leu Ser Leu Pro
 1          5          10          15
Leu Ser Ser Ser Ser Ser Glu Pro Thr Ser Ser Ile Leu Gly Phe Ser
          20          25          30
Ser Ser Ser Leu Ser Ser Ser Ser Phe Ser Pro Phe Ser Ser Ser Ala
          35          40          45
Ser Ser Ser Leu Ile Ser Phe Ser Arg Ser Phe Ser Lys *
          50          55          60 61

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<210> 1593

<211> 128

<212> PRT

<213> Homo sapiens

<400> 1593

```

Met Arg Ala Met Leu Gly Thr Cys Ala Leu Gly Gln Phe Phe Leu Ile
 1          5          10          15
Met Gly Asn Thr Gln Arg Cys Asp Asp Phe Pro Thr Glu Ser Pro Pro
          20          25          30
Ala Lys Thr Asn Val Ser Arg Ala Gly Leu Ser Pro Pro Cys Glu Ala
          35          40          45
Leu His Gly Val Glu Ser Arg Gly Ser Cys Ser His Gly Lys Leu Gln
          50          55          60
Ser Pro Pro Gly Arg Asp Trp Pro Gln Gly Asp Pro Gln Asp Arg Pro
65          70          75          80
Lys Arg Arg Trp Gln Arg Pro Gly Pro Ala Gly Arg Gly Ala Pro Asp
          85          90          95
Pro Thr Pro Lys Gly Gln Gly Ala Ala Val Pro Pro Arg Ser Ala Ser
          100          105          110
Met Phe Leu Ile His Lys Gln Met Trp Ala Tyr Gly Phe Gly Asp *
          115          120          125          127

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<210> 1594
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1594
 Met Ile Trp Ala Leu Ser Ser Ser Leu Ile Pro Phe Leu Ile Ala Leu
 1 5 10 15
 Cys Phe Val His Ser Ala Asn Ser His Leu Gln Val Leu Val Ile Cys
 20 25 30
 Ser Ser Leu Phe Leu Glu Pro Pro Pro His Asn Phe Met *
 35 40 45

<210> 1595
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1595
 Met Trp Glu Glu Leu Leu Arg Gly Leu Thr Ala Pro Tyr Trp Leu Ser
 1 5 10 15
 Ser Trp Leu Cys Phe Ser Trp Arg Ala Ala Thr Val Ala Val Ala Val
 20 25 30
 Ala Val Ala Val Ala Ala Ala Ala Thr Ala Ala Ala Ala Ala Ala
 35 40 45
 Cys Val Lys Ser Val Glu Gly Leu Ala Ala Cys Glu Gly Arg Pro Arg
 50 55 60
 Pro Pro Gly Pro Pro Ala Tyr Leu Gln Glu Thr Gln Asp Cys His Ala
 65 70 75 80
 Leu Cys Val Gly Ser *
 85

<210> 1596
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1596
 Met Val Leu Ser Trp Leu Thr Leu Ile Glu Ala Leu Ala Asp Val Met
 1 5 10 15
 Thr Thr Asp Gly Asn Met Leu Gln Leu Phe Cys Val Glu Arg Thr Asn
 20 25 30
 Leu Leu Val Asn Gln Ile Arg Met Thr Leu Tyr Ala Gln Tyr Arg His
 35 40 45
 Val Arg Pro Phe Arg Thr Ile Met Lys Pro Ile Leu Thr Arg Glu Val
 50 55 60
 Gln Thr Lys Asp *
 65 68

<210> 1597
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1597
 Met Phe Leu Leu Phe Ser Arg Ile Ser Asn Leu Met Phe Val Asn His
 1 5 10 15
 Lys Leu Pro Met Leu Ile Thr Glu Asn Lys Gln Val Ser Lys Glu Glu
 20 25 30
 Asn Lys Ala Thr His Ser His Arg Ser Ser Phe Gln Ser Ser Thr Ile
 35 40 45
 Ser Ser Arg Leu Asn Leu Ile *
 50 55

<210> 1598
 <211> 97
 <212> PRT
 <213> Homo sapiens

<400> 1598
 Met His Glu Ser Pro Leu Ala Trp Ala Ser Val His Leu Ser Ser Leu
 1 5 10 15
 Pro Leu Leu Cys Thr Ala Cys Ser Ser Pro Leu Met Gly Asn Ser Val
 20 25 30
 Leu Cys Arg Ala Pro Ala Asp Met Gly Leu Ala Trp Met Leu Leu Leu
 35 40 45
 Ser Glu Pro Arg Arg Val Val Pro Gly Ile Ala Ala Gln Val Leu Thr
 50 55 60
 Ala Leu Arg Arg Arg Leu Leu Ser Gly Thr Leu Pro Ser Phe Pro Arg
 65 70 75 80
 Arg Lys Asn Pro Leu His Glu His Leu Leu Ala Phe Ile Val Arg Leu
 85 90 95 96
 *

<210> 1599
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1599
 Met Thr Val Ser Gly Thr Val Val Leu Val Ala Gly Thr Leu Cys Phe
 1 5 10 15
 Ala Trp Trp Ser Glu Gly Asp Ala Thr Ala Gln Pro Gly Gln Leu Ala
 20 25 30
 Pro Pro Thr Glu Tyr Pro Val Pro Glu Gly Pro Ser Pro Leu Leu Arg
 35 40 45
 Ser Val Ser Phe Val Cys Cys Gly Ala Gly Gly Leu Leu Leu Leu Ile
 50 55 60
 Gly Leu Leu Trp Ser Val Lys Ala Ser Ile Pro Gly Pro Pro Arg Trp

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65              70              75              80
Asp Pro Tyr His Leu Ser Arg Asp Leu Tyr Tyr Leu Thr Val Glu Ser
              85              90              95
Ser Glu Lys Glu Ser Cys Arg Thr Pro Lys Val Val Asp Ile Pro Asp
              100              105              110              112

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<210> 1600
<211> 103
<212> PRT
<213> Homo sapiens

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```

<400> 1600
Met Gly Ala Trp Ala Trp Val Pro Thr Pro Ser Leu Cys Leu Cys His
 1              5              10              15
Ser Thr Cys Leu Glu Phe Leu Leu Phe Leu Tyr Ile Leu Phe Tyr Cys
              20              25              30
Ile Phe Glu Thr Val Ser Leu Ser Pro Arg Leu Glu Arg Ser Gly Ala
              35              40              45
Ile Leu Ala Arg Cys Asn Leu Cys Leu Arg Gly Ser Ser Asp Ser Arg
              50              55              60
Ala Leu Ala Ser Arg Val Ala Glu Thr Thr Gly Met His His His Ala
              65              70              75              80
Trp Leu Ile Phe Ala Phe Leu Val Glu Thr Gly Phe His His Val Gly
              85              90              95
Gln Ala Gly Leu Asn Ser *
              100              102

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<210> 1601
<211> 84
<212> PRT
<213> Homo sapiens

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```

<400> 1601
Met Val Ala Leu Leu Cys Arg Gln Ile Ile Ser Ala Ala Phe Ser Gly
 1              5              10              15
Glu Gly Thr Pro Leu Cys Ser Trp Ser Ser Gly Pro Ile Leu Ser Ser
              20              25              30
Val Cys Leu Leu Cys Pro Leu Ala Val Leu Cys Pro Ala Lys Pro Glu
              35              40              45
Pro Arg Ala Phe Thr Asp Leu Arg Gly Glu Glu Val Cys Ala Asp Trp
              50              55              60
Phe Met Gly Gly His Gly Arg Val Glu Arg Gly Thr Met Ser Pro His
              65              70              75              80
Ser Gly Leu *
              83

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<210> 1602
<211> 91
<212> PRT

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<213> Homo sapiens

<400> 1602

```

Met Lys Thr Leu Pro Val Leu Val Leu Ser Leu Thr Leu Leu Thr Val
 1           5           10           15
Phe Ser Glu Thr Ser Pro Ile Leu Thr Glu Lys Gln Ala Lys Gln Leu
           20           25           30
Leu Arg Ser Arg Arg Gln Asp Arg Pro Ser Lys Pro Gly Phe Pro Asp
           35           40           45
Glu Pro Met Arg Glu Tyr Met His His Leu Leu Ala Leu Glu His Arg
           50           55           60
Ala Glu Glu Gln Phe Leu Glu His Trp Leu Asn Pro His Cys Lys Pro
           65           70           75           80
His Cys Asp Arg Asn Arg Ile His Pro Val *
           85           90

```

<210> 1603

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1603

```

Met Lys Arg Asp Val Leu Ile Thr Glu Thr Phe Cys Ile Leu Phe Trp
 1           5           10           15
Leu Cys Ala Phe Ser Ser Met Asn Asp Tyr Val Phe Lys Pro His Val
           20           25           30
Leu Tyr Ile Asp Cys Pro Leu Lys Arg Leu Asp Ser Ser Val Cys Gln
           35           40           45
His Ile Gly Thr Glu Tyr Asn Tyr Thr Leu Ile Ile Ser Gln Val Phe
           50           55           60
Ile Leu Glu Val *
           65           68

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<210> 1604

<211> 83

<212> PRT

<213> Homo sapiens

<400> 1604

```

Met Leu Gln Pro Met Phe Phe Thr Leu Ser Thr His Leu Val Gly Leu
 1           5           10           15
Ser Gln Ile Ser Tyr Leu Ser Phe Pro Leu Ile Ser Leu His Pro Ala
           20           25           30
Gln Val Val Lys Arg Gln Ser Ser Leu Pro Arg Leu Met Gln Ser Ser
           35           40           45
Lys Glu Ser Lys Ala Val Leu Val Glu Ile Ile Leu Arg Ala Arg Lys
           50           55           60
Val Val Lys Tyr Ile Ser Lys Gly Phe Leu Arg Ala Val Cys Ala Glu
           65           70           75           80
Met Ile *
           82

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<210> 1605
 <211> 110
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(110)
 <223> Xaa = any amino acid or nothing

<400> 1605
 Met Ser Thr Ile Ile Phe Gln Trp Pro Phe Met Leu Val Ser Leu His
 1 5 10 15
 Arg Cys Arg Lys Leu Pro Arg Ala Leu Lys Asp Trp Gln Ala Phe Leu
 20 25 30
 Asp Leu Lys Lys Ile Ile Asp Asp Phe Ser Glu Cys Cys Pro Leu Leu
 35 40 45
 Glu Tyr Met Gly Ser Lys Ala Met Met Glu Arg His Xaa Glu Arg Ile
 50 55 60
 Thr Thr Leu Thr Gly His Ser Leu Asp Val Gly Asn Glu Ser Phe Lys
 65 70 75 80
 Leu Arg Asn Ile Met Glu Ala Pro Leu Leu Xaa Tyr Lys Glu Glu Ile
 85 90 95
 Glu Val Glu Tyr Asp Val Met Glu Asp Cys Lys Val Ser Trp
 100 105 110

<210> 1606
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1606
 Met Thr Ala Gly Thr Val Thr Met Leu Leu Trp His Ala Ser Asn Trp
 1 5 10 15
 Asp Val Gln Leu Pro Ser Gln Pro Leu Val Glu Leu Thr Pro Val Arg
 20 25 30
 Asp Leu Asp Thr Ser Gly Leu Thr Ala Phe Leu Ala Arg Asp Met Asn
 35 40 45
 Leu Leu Ser Gly Asn Val Asn Thr Met Asn Gly Glu Ser Ile Ile Ala
 50 55 60
 Ile Thr Met Lys Met Leu Ala *
 65 70 71

<210> 1607
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1607
 Met Phe Thr Arg Phe Ile Gly Leu Phe Leu Lys Phe Ile Leu Met Phe
 1 5 10 15

Phe Leu Leu Leu Ser Phe Ile Ser Tyr Phe Cys Leu Phe Pro Cys Ser
 20 25 30
 Asn Leu Pro Lys Val Ile Ala Ile Phe Asn Ile Val Leu Ile Leu Ser
 35 40 45
 Ile Val Phe Arg Glu Ile Thr Asp Thr Tyr *
 50 55 58

<210> 1608
 <211> 118
 <212> PRT
 <213> Homo sapiens

<400> 1608
 Met Leu Val Thr Asp Thr Glu Ala Phe Trp Gln Pro Gln Pro Trp Phe
 1 5 10 15
 Val Val Val Leu Thr Ala Thr Gly Ala Leu Leu Leu Ala Leu Gly
 20 25 30
 Trp Leu Leu Gly Arg Leu Leu Gln Gly Leu Ala Gln Leu Leu Gln Ala
 35 40 45
 Pro Ser Lys Pro Ala Gln Ala Leu Leu Leu Asn Ser Ile Gln Gly Thr
 50 55 60
 Glu Gly Ser Ile Glu Gly Phe Leu Glu Ala Pro Lys Met Glu Met Ser
 65 70 75 80
 Gln Ala Pro Ser Ser Val Met Ser Leu Gln His Phe Asp Gly Arg Thr
 85 90 95
 Gln Asp Ser Arg Thr Gly Arg Asp Tyr Leu Val Asn Thr His Thr Gly
 100 105 110
 Ala Arg Arg Trp Leu *
 115 117

<210> 1609
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1609
 Met Val Ile Gly Ser Leu His Thr Phe Thr Leu Leu Ala Ala Ser Ser
 1 5 10 15
 Leu Val Asp Thr Pro Lys Gln Ile Gln Leu Leu Met Gln Asn Leu Met
 20 25 30
 Asn Asp Pro Arg Lys Glu Val Lys Ile Leu Ala Ile Gln Asp Leu Lys
 35 40 45
 Leu Leu
 50

<210> 1610
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1610
 Met Val Leu Ile Leu Ser Pro Gly Leu Ser Ile Leu Phe Thr Lys Met
 1 5 10 15
 Ser Glu Thr Phe Ser Ser Ser Leu Leu Lys Leu Ser Ser Ser Ile Cys
 20 25 30
 Ile Phe Pro Leu Cys Ile Asn Met Ile Ile Cys Tyr Gln Lys Lys Ser
 35 40 45
 Gln *
 49

<210> 1611
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1611
 Met Ser Phe Gln Ala Phe Val Phe Leu Met Ile Gly Trp Leu His Pro
 1 5 10 15
 Asp Pro Arg Leu Met Thr Gln Arg Ser Cys Gly Pro His Pro Glu Val
 20 25 30
 Asp Ser Ala Gln Glu Asp His Phe Ser His Pro Tyr Asp Ile Pro Asn
 35 40 45
 Gln Ser Ala Pro Pro Leu Pro *
 50 55

<210> 1612
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1612
 Met Leu Thr Leu Ala Leu Leu Val Leu Arg Ile Cys Val Cys Glu Ala
 1 5 10 15
 Ala Ser Thr Phe Val Cys Pro Cys Leu Pro Trp Leu Ser Leu Leu Phe
 20 25 30
 Leu His Leu Leu Pro Arg Leu Phe Gln Val Gln Ile Trp Phe Leu Leu
 35 40 45
 Phe Leu Pro Phe Leu Leu Leu Leu Pro Ser Val Pro Glu Ile Phe Pro
 50 55 60
 Ala Pro Gln Ala Trp Gly Leu Gly Cys Ser *
 65 70 74

<210> 1613
 <211> 192
 <212> PRT
 <213> Homo sapiens

<400> 1613
 Met Phe Thr Cys Leu Phe Leu Phe Ser Ala Val Leu Arg Ala Leu Phe
 1 5 10 15

```

Arg Lys Ser Asp Pro Lys Arg Phe Gln Asn Ile Phe Thr Thr Ile Phe
      20      25      30
Thr Leu Phe Thr Leu Leu Thr Leu Asp Asp Trp Ser Leu Ile Tyr Met
      35      40      45
Asp Ser Arg Ala Gln Gly Ala Trp Tyr Ile Ile Pro Ile Leu Ile Ile
      50      55      60
Tyr Ile Ile Ile Gln Tyr Phe Ile Phe Leu Asn Leu Val Ile Thr Val
      65      70      75      80
Leu Val Asp Ser Phe Gln Thr Ala Leu Phe Lys Gly Leu Glu Lys Ala
      85      90      95
Lys Gln Glu Arg Ala Ala Arg Ile Gln Glu Lys Leu Leu Glu Asp Ser
      100      105      110
Leu Thr Glu Leu Arg Ala Ala Glu Pro Lys Glu Val Ala Ser Glu Gly
      115      120      125
Thr Met Leu Lys Arg Leu Ile Glu Lys Lys Phe Gly Thr Met Thr Glu
      130      135      140
Lys Gln Gln Glu Leu Leu Phe His Tyr Leu Gln Leu Val Ala Ser Val
      145      150      155      160
Glu Gln Glu Gln Gln Lys Phe Arg Ser Gln Ala Ala Val Ile Asp Glu
      165      170      175
Ile Val Asp Thr Thr Phe Glu Ala Gly Glu Glu Asp Phe Arg Asn *
      180      185      190 191

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<210> 1614
<211> 153
<212> PRT
<213> Homo sapiens

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```

<400> 1614
Met Asp Leu Val Gln Phe Phe Val Thr Phe Phe Ser Cys Phe Leu Ser
  1      5      10      15
Leu Leu Leu Val Ala Ala Val Val Trp Lys Ile Lys Gln Thr Cys Trp
      20      25      30
Ala Ser Arg Arg Arg Glu Gln Leu Leu Arg Glu Arg Gln Gln Met Ala
      35      40      45
Ser Arg Pro Phe Ala Ser Val Asp Val Ala Leu Glu Val Gly Ala Glu
      50      55      60
Gln Thr Glu Phe Leu Arg Gly Pro Leu Glu Gly Ala Pro Lys Pro Ile
      65      70      75      80
Ala Ile Glu Pro Cys Ala Gly Asn Arg Ala Ala Val Leu Thr Val Phe
      85      90      95
Leu Cys Leu Pro Arg Gly Ser Ser Gly Ala Pro Pro Pro Gly Gln Ser
      100      105      110
Gly Leu Ala Ile Ala Ser Ala Leu Ile Asp Ile Ser Gln Gln Lys Ala
      115      120      125
Ser Asp Ser Lys Asp Lys Thr Ser Gly Val Arg Asn Arg Lys His Leu
      130      135      140
Ser Thr Arg Gln Gly Thr Cys Val *
      145      150      152

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<210> 1615
<211> 135
<212> PRT
<213> Homo sapiens

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<400> 1615

```

Met His Trp Leu Arg Ala Ser Ala Gly Ser Leu Leu Met Val Pro Leu
 1          5          10          15
Met Thr Asp Leu His Glu Leu Ala Leu Pro Pro Ala Ser Leu Arg Thr
          20          25          30
Val Val Lys Glu Asn Met Cys Val Leu Pro Phe Pro Val Lys Thr Ser
          35          40          45
Gly Arg Ser Leu Thr Gly Ser Ala Trp Ser Arg Phe His Leu Pro Cys
 50          55          60
His Leu Arg Pro Gly Asp Arg Leu Pro Cys His Cys Leu Gly Lys Phe
 65          70          75          80
Arg Lys Arg Val Ala Lys Trp Cys Ile Arg Lys Asn Met Ala Arg Ser
          85          90          95
Pro His Leu Leu Gly Gly Arg Pro Asn Ser Thr Ser Gly Pro Leu Cys
          100          105          110
Asp Phe Pro Ala Pro Ser Lys Gln Val Thr Pro Leu Leu Trp Val Ser
          115          120          125
Val Ser Leu Pro Ile Lys *
          130          134

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<210> 1616

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1616

```

Met Leu His Gln Met Lys Phe Ile Gly His Leu Ile Phe Ile Val Val
 1          5          10          15
Leu Asp Pro Asp Leu Ser Asp Met Lys Asn Asn Glu Pro Tyr Asp Tyr
          20          25          30
Lys Phe Val Lys Trp Met Thr Lys His Lys Val Met Phe Ile Val Leu
          35          40          45
Cys Lys Ile Leu Leu Tyr Phe Ile Val Asn Phe *
          50          55          59

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<210> 1617

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1617

```

Met Pro Glu His Leu Cys Phe Glu Ile Cys Asn Thr Leu Leu Asn Phe
 1          5          10          15
Phe Ser Phe Leu Leu Cys Val Thr Asp His Glu Thr Thr Phe Phe
          20          25          30
Asp Ser Gly Trp Lys Ala Ser Gly Ser Thr Val Thr Cys Lys Ala Gly
          35          40          45          48

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<210> 1618
 <211> 95
 <212> PRT
 <213> Homo sapiens

<400> 1618
 Met Trp Thr Val Leu Trp His Arg Phe Ser Met Val Leu Arg Leu Pro
 1 5 10 15
 Glu Glu Ala Ser Ala Gln Glu Gly Glu Leu Ser Leu Ser Ser Pro Pro
 20 25 30
 Ser Pro Glu Pro Asp Trp Thr Leu Ile Ser Pro Gln Gly Met Ala Ala
 35 40 45
 Leu Leu Ser Leu Ala Met Ala Thr Phe Thr Gln Glu Pro Gln Leu Cys
 50 55 60
 Leu Ser Cys Leu Ser Gln His Gly Ser Ile Leu Met Ser Ile Leu Lys
 65 70 75 80
 His Leu Leu Cys Pro Ser Phe Leu Asn Gln Leu Arg Gln Ala *
 85 90 94

<210> 1619
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1619
 Met Ile Leu Met Leu Leu Leu Ile Val Asp Leu Val Gln Leu Ala
 1 5 10 15
 Gly Asn Ala Val Ile Ser Ser Gly Ser Trp Asp Ser Ala Cys Thr Gly
 20 25 30
 Thr Pro Ser Pro Ser Thr Pro Ser Thr Trp Pro Gly Pro Thr Ser Ser
 35 40 45
 Ser Ala Pro Arg Phe *
 50 53

<210> 1620
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1620
 Met Cys Cys Ser Phe Leu Leu Glu Gly Leu Ile Ser Leu Phe Ser Leu
 1 5 10 15
 Gln Leu Phe Ser Val Gln Leu Val Leu Leu Phe Phe Leu Trp Ile Val
 20 25 30
 Ser Tyr Ser Lys Lys Gln Ile Lys Asp Thr Phe Ala Lys Thr Lys Asn
 35 40 45
 Thr Val Ala Arg Ile Leu Leu Ser Ile Pro Asp Leu Pro Ser Leu Thr
 50 55 60
 Leu Ile Thr Gln Ile Leu *
 65 70

<210> 1621
 <211> 90
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(90)
 <223> Xaa = any amino acid or nothing

<400> 1621
 Met Asp His Lys Ser Leu Trp Ala Gly Val Glu Val Leu Leu Leu Leu
 1 5 10 15
 Gln Gly Gly Ser Ala Tyr Lys Leu Val Cys Tyr Phe Thr Asn Trp Ser
 20 25 30
 Gln Asp Arg Gln Glu Pro Gly Lys Phe Thr Pro Glu Asn Ile Asp Pro
 35 40 45
 Phe Leu Cys Ser His Leu Ile Tyr Ser Phe Ala Ser Ile Glu Asn Asn
 50 55 60
 Lys Val Ile Ile Arg Thr Pro Xaa Phe Phe Pro Leu Pro Leu Gly His
 65 70 75 80
 Arg Leu Gln Thr Ile Asn Pro Arg Leu *
 85 89

<210> 1622
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1622
 Met Gln Cys Ala Ile Cys Ile Leu Leu Tyr Leu Leu Asn Lys Lys Thr
 1 5 10 15
 Val Trp Arg Cys Ser Arg Ile His His Asn Asn Thr Val Val Leu Thr
 20 25 30
 Arg Glu Ser Ser Pro Phe Leu Thr Cys Thr Leu Ser Ser Val Leu
 35 40 45
 Leu Thr Lys Ala *
 50 52

<210> 1623
 <211> 978
 <212> PRT
 <213> Homo sapiens

<400> 1623
 Met Pro Ala Arg Arg Leu Leu Leu Leu Leu Thr Leu Leu Leu Pro Gly
 1 5 10 15
 Leu Gly Ile Phe Gly Ser Thr Ser Thr Val Thr Leu Pro Glu Thr Leu
 20 25 30
 Leu Phe Val Ser Thr Leu Asp Gly Ser Leu His Ala Val Ser Lys Arg
 35 40 45

Thr Gly Ser Ile Lys Trp Thr Leu Lys Glu Asp Pro Val Leu Gln Val
 50 55 60
 Pro Thr His Val Glu Glu Pro Ala Phe Leu Pro Asp Pro Asn Asp Gly
 65 70 75 80
 Ser Leu Tyr Thr Leu Gly Ser Lys Asn Asn Glu Gly Leu Thr Lys Leu
 85 90 95
 Pro Phe Thr Ile Pro Glu Leu Val Gln Ala Ser Pro Cys Arg Ser Ser
 100 105 110
 Asp Gly Ile Leu Tyr Met Gly Lys Lys Gln Asp Ile Trp Tyr Val Ile
 115 120 125
 Asp Leu Leu Thr Gly Glu Lys Gln Gln Thr Leu Ser Ser Ala Phe Ala
 130 135 140
 Asp Ser Leu Cys Pro Ser Thr Ser Leu Leu Tyr Leu Gly Arg Thr Glu
 145 150 155 160
 Tyr Thr Ile Thr Met Tyr Asp Thr Lys Thr Arg Glu Leu Arg Trp Asn
 165 170 175
 Ala Thr Tyr Phe Asp Tyr Ala Ala Ser Leu Pro Glu Asp Asp Val Asp
 180 185 190
 Tyr Lys Met Ser His Phe Val Ser Asn Gly Asp Gly Leu Val Val Thr
 195 200 205
 Val Asp Ser Glu Ser Gly Asp Val Leu Trp Ile Gln Asn Tyr Ala Ser
 210 215 220
 Pro Val Val Ala Phe Tyr Val Trp Gln Arg Glu Gly Leu Arg Lys Val
 225 230 235 240
 Met His Ile Asn Val Ala Val Glu Thr Leu Arg Tyr Leu Thr Phe Met
 245 250 255
 Ser Gly Glu Val Gly Arg Ile Thr Lys Trp Lys Tyr Pro Phe Pro Lys
 260 265 270
 Glu Thr Glu Ala Lys Ser Lys Leu Thr Pro Thr Leu Tyr Val Gly Lys
 275 280 285
 Tyr Ser Thr Ser Leu Tyr Ala Ser Pro Ser Met Val His Glu Gly Val
 290 295 300
 Ala Val Val Pro Arg Gly Ser Thr Leu Pro Leu Leu Glu Gly Pro Gln
 305 310 315 320
 Thr Asp Gly Val Thr Ile Gly Asp Lys Gly Glu Cys Val Ile Thr Pro
 325 330 335
 Ser Thr Asp Val Lys Phe Asp Pro Gly Leu Lys Ser Lys Asn Lys Leu
 340 345 350
 Asn Tyr Leu Arg Asn Tyr Trp Leu Leu Ile Gly His His Glu Thr Pro
 355 360 365
 Leu Ser Ala Ser Thr Lys Met Leu Glu Arg Phe Pro Asn Asn Leu Pro
 370 375 380
 Lys His Arg Glu Asn Val Ile Pro Ala Asp Ser Glu Lys Lys Ser Phe
 385 390 395 400
 Glu Glu Val Ile Asn Leu Val Asp Gln Thr Ser Glu Asn Ala Pro Thr
 405 410 415
 Thr Val Ser Arg Asp Val Glu Glu Lys Pro Ala His Ala Pro Ala Arg
 420 425 430
 Pro Glu Ala Pro Val Asp Ser Met Leu Lys Asp Met Ala Thr Ile Ile
 435 440 445
 Leu Ser Thr Phe Leu Leu Ile Gly Trp Val Ala Phe Ile Ile Thr Tyr
 450 455 460
 Pro Leu Ser Met His Gln Gln Gln Leu Gln His Gln Gln Phe Gln
 465 470 475 480
 Lys Glu Leu Glu Lys Ile Gln Leu Leu Gln Gln Gln Gln Gln Leu
 485 490 495
 Pro Phe His Pro Pro Gly Asp Thr Ala Gln Asp Gly Glu Leu Leu Asp
 500 505 510
 Thr Ser Gly Pro Tyr Ser Glu Ser Ser Gly Thr Ser Ser Pro Ser Thr

[illegible]

<210> 1624
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1624
 Met His Ser Cys Trp Thr Phe Gln Asp Leu Ser Leu Val Gln Leu Cys
 1 5 10 15
 Leu Pro Leu Ser Cys Pro Gln Gln Gly Pro Val Gly Pro Gly Gly Phe
 20 25 30
 Leu Leu Pro Val Ser Gln Val Gly Pro Pro Lys Pro Ala Gly His Trp
 35 40 45
 Gln Arg Lys Leu Leu Met Pro *
 50 55

<210> 1625
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1625
 Met Glu Leu Ala Leu Leu Cys Gly Leu Val Val Met Ala Gly Val Ile
 1 5 10 15
 Pro Ile Gln Gly Gly Ile Leu Asn Leu Asn Lys Met Val Lys Gln Val
 20 25 30
 Thr Gly Lys Met Pro Ile Leu Ser Tyr Trp Pro Tyr Gly Cys His Cys
 35 40 45
 Gly Leu Gly Gly Arg Gly Gln Pro Lys Asp Ala Thr Asp Trp Cys Cys
 50 55 60
 Gln Thr His Asp Cys Cys Tyr Asp His Leu Lys Thr Gln Gly Cys Gly
 65 70 75 80
 Ile Tyr Lys Asp Tyr Tyr Arg Tyr Asn Phe Ser Gln Gly Asn Ile His
 85 90 95
 Cys Ser Asp Lys Gly Ser Trp Cys Glu Gln Gln Leu Cys Ala Cys Asp
 100 105 110
 Lys Glu Val Ala Phe Cys Leu Lys Arg Asn Leu Asp Thr Tyr Gln Lys
 115 120 125
 Arg Leu Arg Phe Tyr Trp Arg Pro His Cys Arg Gly Gln Thr Pro Gly
 130 135 140
 Cys *
 145

<210> 1626
 <211> 385
 <212> PRT
 <213> Homo sapiens

<400> 1626
 Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly

```

      1           5           10           15
Val Gln Cys Glu Val Gln Leu Val Glu Ser Gly Gly Gly Leu Val Gln
      20           25           30
Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
      35           40           45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
      50           55           60
Glu Trp Val Ser Gly Ile Gly Gly Ser Gly Ser Ser Thr Tyr Tyr Ala
      65           70           75           80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Gln Asn
      85           90           95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
      100          105          110
Tyr Tyr Cys Ala Lys Ser His Pro Ala Tyr Tyr Tyr Gly Ser Gly Ser
      115          120          125
Tyr Ser Ser His Tyr Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln
      130          135          140
Gly Thr Thr Val Thr Val Ser Ser Gly Asp Gly Ser Ser Gly Gly Ser
      145          150          155          160
Gly Gly Ala Ser Thr Gly Glu Ile Val Leu Thr Gln Ser Pro Gly Thr
      165          170          175
Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys Arg Ala Ser
      180          185          190
Gln Ser Val Ser Ser Ser Tyr Leu Ala Trp Tyr Gln Gln Lys Pro Gly
      195          200          205
Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg Ala Thr Gly
      210          215          220
Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu
      225          230          235          240
Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys Gln
      245          250          255
Gln Tyr Gly Ser Ser Pro Thr Thr Phe Gly Gln Gly Thr Lys Val Glu
      260          265          270
Ile Lys Arg Thr Val Ala Ala Pro Ser Val Phe Ile Phe Pro Pro Ser
      275          280          285
Asp Glu Gln Leu Lys Ser Gly Thr Ala Ser Val Val Cys Leu Leu Asn
      290          295          300
Asn Phe Tyr Pro Arg Glu Ala Lys Val Gln Trp Lys Val Asp Asn Ala
      305          310          315          320
Leu Gln Ser Gly Asn Ser Gln Glu Ser Val Thr Glu Gln Asp Ser Lys
      325          330          335
Asp Ser Thr Tyr Ser Leu Ser Ser Thr Leu Thr Leu Ser Lys Ala Asp
      340          345          350
Tyr Glu Lys His Lys Val Tyr Ala Cys Glu Val Thr His Ser Gly Ala
      355          360          365
Leu Ser Phe Ala Arg Ser Gln Arg Ser Phe Gln Pro Gly Glu Ser Val
      370          375          380          384

```

*

```

<210> 1627
<211> 101
<212> PRT
<213> Homo sapiens

```

```

<400> 1627

```

```

Met Ile Val His Cys Thr Ile Ile Pro Leu Ser Phe Cys Val His Arg
 1           5           10           15
Leu Arg Ala Pro Leu Asp Ala Tyr Phe Gln Val Ser Arg Thr Gln Pro
           20           25           30
Asp Leu Pro Ala Thr Thr Tyr Asp Ser Glu Thr Arg Asn Pro Val Ser
           35           40           45
Glu Glu Leu Gln Val Ser Ser Ser Ser Asp Ser Asp Ser Asp Ser Ser
 50           55           60
Ala Glu Tyr Gly Gly Val Val Asp Gln Ala Glu Glu Ser Gly Ala Val
 65           70           75           80
Ile Leu Glu Gly Gln Tyr Phe Thr Gln Val Trp Thr His Lys Ala Asn
           85           90           95
Ile His Glu Ala *
           100

```

```

<210> 1628
<211> 71
<212> PRT
<213> Homo sapiens

```

```

<400> 1628
Met Ile Phe Tyr Val Ile Leu Ser Ser Pro Ser Ser Arg Thr Phe Phe
 1           5           10           15
Lys Ile Thr Leu Ile Met Ser Leu Gly Leu Ile Ser Lys Leu Leu Ile
           20           25           30
Thr Ser Cys Thr Phe Asp Thr Val Thr Phe Met Met Leu Thr Asn Ile
           35           40           45
Thr Lys Met Lys Ile Ser Ser Gly Lys Ala Thr Gln Ser Gln Glu Phe
 50           55           60
Phe Ser Glu Leu Ile Leu Tyr
 65           70 71

```

```

<210> 1629
<211> 112
<212> PRT
<213> Homo sapiens

```

```

<400> 1629
Met Ala His Tyr Lys Thr Glu Gln Asp Asp Trp Leu Ile Ile Tyr Leu
 1           5           10           15
Lys Tyr Leu Leu Phe Val Phe Asn Phe Phe Phe Trp Val Gly Gly Ala
           20           25           30
Ala Val Leu Ala Val Gly Ile Trp Thr Leu Val Glu Lys Ser Gly Tyr
           35           40           45
Leu Ser Val Leu Ala Ser Ser Thr Phe Ala Ala Ser Ala Tyr Ile Leu
 50           55           60
Ile Phe Ala Gly Val Leu Val Met Val Thr Gly Phe Leu Gly Phe Gly
 65           70           75           80
Ala Ile Leu Trp Glu Arg Lys Gly Cys Leu Ser Thr Tyr Phe Cys Leu
           85           90           95
Leu Leu Val Ile Phe Leu Asp Glu Leu Glu Ala Gly Val Leu Ala His
           100           105           110           112

```

<210> 1630
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1630
 Met Trp Pro Gln Leu Leu Lys Ser Phe Phe Leu Ile Pro Thr Gln Ile
 1 5 10 15
 His Phe Asn Leu Thr Asn Leu Pro Ser Trp Arg Arg Arg Glu Leu Arg
 20 25 30
 Arg Phe Val Trp Val Ser Met Pro Glu Leu Ile Gly Ala Ser *
 35 40 45 46

<210> 1631
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1631
 Met Tyr Met Trp Ser Gly Leu Leu Gly Ser Lys Trp Thr Leu Val Tyr
 1 5 10 15
 Ser His Phe Leu Asn Met Ala Pro Ala Ser Phe Ser His Tyr Gln Ala
 20 25 30
 Ser Leu Pro Leu Leu Glu His Asp Thr Leu Ser Ser Ser Arg Val His
 35 40 45
 Ser Tyr Gln Cys Pro Gly Phe Phe Cys Phe Phe Pro Ser Val Leu Glu
 50 55 60
 Phe Ser Gln Leu Gln Lys Thr Tyr Ser Leu Cys Leu Pro Phe *
 65 70 75 78

<210> 1632
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1632
 Met Phe Met Cys Arg Leu Leu Leu Trp Ala Thr Gly Ala Tyr Gly Phe
 1 5 10 15
 Leu Gly Asp Asp Val Glu Tyr Thr Ser Val Leu Pro His Gln Lys Gly
 20 25 30
 Lys Glu Ala Trp Val Phe Ile Cys Gln Leu Pro Phe Ile Ile Gly *
 35 40 45 47

<210> 1633
 <211> 58
 <212> PRT

<213> Homo sapiens

<400> 1633

```

Met Cys Leu Arg Arg Thr Leu Leu Trp His Leu His Ile Ala Pro Leu
 1           5           10           15
Val Asn Ile Leu Ser Asp Tyr Lys Pro Leu Gly Arg Trp Asn His Ala
           20           25           30
Pro Ala Leu Thr Ala Gly Ala Leu His Lys Thr Thr Ile Leu Leu Pro
           35           40           45
Gln Gly His Pro Lys Ala Ala Asn Pro *
           50           55           57

```

<210> 1634

<211> 55

<212> PRT

<213> Homo sapiens

<400> 1634

```

Met Leu Val Phe Asn Leu Ser Leu Val Leu Ser His Ser Val Leu Glu
 1           5           10           15
Phe Val Met Phe Leu Tyr Ser Leu Asp Ser Ser His Val Cys Pro Leu
           20           25           30
Val Val Pro Val Thr Leu Asp Leu Ile Tyr Leu Val Tyr Leu Pro Cys
           35           40           45
Gln Ser Tyr Ile Leu Ile *
           50           54

```

<210> 1635

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1635

```

Met Ala Val Val Gln Ala Leu Thr Pro Leu Val Ser Ala Ala Ala Thr
 1           5           10           15
Ala Ser Cys Leu Thr Ser Cys Ser Trp Ser Leu Thr Phe Pro Glu His
           20           25           30
Ser Val Asn Tyr Gln Ser His Pro Ser Glu Thr Gln Pro Tyr Leu Leu
           35           40           45
Arg Ser Thr Lys Glu Lys His His His Trp Leu Thr Ala Lys Ala Thr
           50           55           60
Cys Pro Ala Ala Gly Ala Glu Gly Leu Pro Ser Arg Gly *
           65           70           75           77

```

<210> 1636

<211> 51

<212> PRT

<213> Homo sapiens

<400> 1636

```

Met Phe Cys Ser Phe Pro Leu Leu Ile Leu Gln Val Tyr Pro Thr Trp
 1          5          10          15
Lys Asn Pro Asn Trp His Leu Thr Phe His Thr Ser Val Phe Ser Phe
          20          25          30
Pro Lys Gly Val Arg Ser Leu Ala Arg Gly Ile Pro Asp His Leu His
          35          40          45
Ser Ala *
      50

```

<210> 1637

<211> 123

<212> PRT

<213> Homo sapiens

<400> 1637

```

Met Gln Gln Met Met Trp Ala Gly Leu Leu Cys Pro Gln Leu Glu Trp
 1          5          10          15
Leu Gln Gly Arg Ala Cys Arg Pro Cys Gly Leu Leu Ala Ser Asp Ala
          20          25          30
Ala Ala Leu Trp Phe Arg Gly Gly Ile Ser Ala Trp Glu Asp Ser Cys
          35          40          45
Ala Val Ser Asn Ile Arg His Glu Ala Tyr Asn Cys His Leu Ser Val
          50          55          60
Phe Leu Asn Arg Cys Ala Asn Glu Leu Thr Val Gln Phe Leu Ile Ile
          65          70          75          80
Leu Ala Phe Gln Ile Met Leu Ser Cys Ala Val Ile Ala Pro Ala Val
          85          90          95
Pro Val Phe Gln Arg Leu Thr Leu Lys Arg Ser Gly Arg Thr Ser Leu
          100          105          110
Gly Ser Thr Gly Arg Leu His Phe Cys Lys *
          115          120          122

```

<210> 1638

<211> 69

<212> PRT

<213> Homo sapiens

<400> 1638

```

Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe
 1          5          10          15
Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr
          20          25          30
Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln
          35          40          45
Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val
          50          55          60
Ser Lys Tyr Phe *
          65          68

```

<210> 1639

<211> 92
 <212> PRT
 <213> Homo sapiens

<400> 1639
 Met Tyr Val Ala Gly Tyr Leu Val Ala Asn Ser Ala Ile Cys Gln Leu
 1 5 10 15
 Thr Gln His Ser Leu Val Lys Leu Leu Leu Gln Gly Cys Phe Leu Ile
 20 25 30
 Gly Ser Leu His Leu Cys Ile Cys Val Pro Met Cys Val Cys Val Cys
 35 40 45
 Glu Tyr Arg Ile Leu His Asp Ser Lys Ile Ser Phe Lys Tyr Leu Arg
 50 55 60
 Phe Thr Ile Leu Lys Arg Glu Asn Lys Asn Lys Val Leu Gln Lys Leu
 65 70 75 80
 Lys Lys Asn Leu Lys Ser Val His Thr Leu Ser *
 85 90 91

<210> 1640
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1640
 Met Thr Ala Trp Phe Cys Ser Phe Leu Ser Ser His Trp Val Ile Lys
 1 5 10 15
 Leu Pro Arg Phe Leu Leu Leu Val Leu Pro Phe Phe Trp Gly Lys Lys
 20 25 30
 Phe Ser Leu Gly Leu Ile Ser Gln Phe Phe Ser Lys Ala Tyr Phe Tyr
 35 40 45
 Ser Ser Tyr His Asn Tyr Ile His Thr *
 50 55 57

<210> 1641
 <211> 459
 <212> PRT
 <213> Homo sapiens

<400> 1641
 Met Ser Asp Leu Leu Ser Val Phe Leu His Leu Leu Leu Leu Phe Lys
 1 5 10 15
 Leu Val Ala Pro Val Thr Phe Arg His His Arg Tyr Asp Asp Leu Val
 20 25 30
 Arg Thr Leu Tyr Lys Val Gln Asn Glu Cys Pro Gly Ile Thr Arg Val
 35 40 45
 Tyr Ser Ile Gly Arg Ser Val Glu Gly Arg His Leu Tyr Val Leu Glu
 50 55 60
 Phe Ser Asp His Pro Gly Ile His Glu Pro Leu Glu Pro Glu Val Lys
 65 70 75 80
 Tyr Val Gly Asn Met His Gly Asn Glu Ala Leu Gly Arg Glu Leu Met
 85 90 95
 Leu Gln Leu Ser Glu Phe Leu Cys Glu Glu Phe Arg Asn Arg Asn Gln


```

      100      105      110
Arg Ile Val Gln Leu Ile Gln Asp Thr Arg Ile His Ile Leu Pro Ser
      115      120      125
Met Asn Pro Asp Gly Tyr Glu Val Ala Ala Ala Gln Gly Pro Asn Lys
      130      135      140
Pro Gly Tyr Leu Val Gly Arg Asn Asn Ala Asn Gly Val Asp Leu Asn
      145      150      155      160
Arg Asn Phe Pro Asp Leu Asn Thr Tyr Ile Tyr Tyr Asn Glu Lys Tyr
      165      170      175
Gly Gly Pro Asn His His Leu Pro Leu Pro Asp Asn Trp Lys Ser Gln
      180      185      190
Val Glu Pro Glu Thr Arg Ala Val Ile Arg Trp Met His Ser Phe Asn
      195      200      205
Phe Val Leu Ser Ala Asn Leu His Gly Gly Ala Val Val Ala Asn Tyr
      210      215      220
Pro Tyr Asp Lys Ser Phe Glu His Arg Val Arg Gly Val Arg Arg Thr
      225      230      235      240
Ala Ser Thr Pro Thr Pro Asp Asp Lys Leu Phe Gln Lys Leu Ala Lys
      245      250      255
Val Tyr Ser Tyr Ala His Gly Trp Met Phe Gln Gly Trp Asn Cys Gly
      260      265      270
Asp Tyr Phe Pro Asp Gly Ile Thr Asn Gly Ala Ser Trp Tyr Ser Leu
      275      280      285
Ser Lys Gly Met Gln Asp Phe Asn Tyr Leu His Thr Asn Cys Phe Glu
      290      295      300
Ile Thr Leu Glu Leu Ser Cys Asp Lys Phe Pro Pro Glu Glu Glu Leu
      305      310      315      320
Gln Arg Glu Trp Leu Gly Asn Arg Glu Ala Leu Ile Gln Phe Leu Glu
      325      330      335
Gln Val His Gln Gly Ile Lys Gly Met Val Leu Asp Glu Asn Tyr Asn
      340      345      350
Asn Leu Ala Asn Ala Val Ile Ser Val Ser Gly Ile Asn His Asp Val
      355      360      365
Thr Ser Gly Asp His Gly Asp Tyr Phe Arg Leu Leu Leu Pro Gly Ile
      370      375      380
Tyr Thr Val Ser Ala Thr Ala Pro Gly Tyr Asp Pro Glu Thr Val Thr
      385      390      395      400
Val Thr Val Gly Pro Ala Glu Pro Thr Leu Val Asn Phe His Leu Lys
      405      410      415
Arg Ser Ile Pro Gln Val Ser Pro Val Arg Arg Ala Pro Ser Arg Arg
      420      425      430
His Gly Val Arg Ala Lys Val Gln Pro Gln Pro Arg Lys Lys Glu Met
      435      440      445
Glu Met Arg Gln Leu Gln Arg Gly Pro Ala *
      450      455      458

```

<210> 1642

<211> 144

<212> PRT

<213> Homo sapiens

<400> 1642

```

Met Ala Arg Cys Thr Leu Thr Leu Leu Lys Thr Met Leu Thr Glu Leu
  1           5           10           15
Leu Arg Gly Gly Ser Phe Glu Phe Lys Asp Met Arg Val Pro Ser Ala
      20           25           30

```

```

Leu Val Thr Leu His Met Leu Leu Cys Ser Ile Pro Leu Ser Gly Arg
      35              40              45
Leu Asp Ser Asp Glu Gln Lys Ile Gln Asn Asp Ile Ile Asp Ile Leu
      50              55              60
Leu Thr Phe Thr Gln Gly Val Asn Glu Lys Leu Thr Ile Ser Glu Glu
      65              70              75              80
Thr Leu Ala Asn Asn Thr Trp Ser Leu Met Leu Lys Glu Val Leu Ser
      85              90              95
Ser Ile Leu Lys Val Pro Glu Gly Phe Phe Ser Gly Leu Ile Leu Leu
      100             105             110
Ser Glu Leu Leu Pro Leu Pro Leu Pro Met Gln Thr Thr Gln Val Ser
      115             120             125
Leu Pro Tyr Asn Met His Leu Ile Asn Asp Cys Ser Asn Thr Phe *
      130             135             140             143

```

```

<210> 1643
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1643
Met Gly Arg Arg Trp Leu Phe Leu Ile Ala Cys Leu Arg Ser Ala Ser
  1              5              10              15
Ile Leu Ala Trp Ala Thr Trp Arg Asn Pro Val Ser Thr Lys Asn Lys
      20              25              30
Lys Leu Ala Ser His Asp Gly Pro His Leu Ala Val Pro Ala Ile Arg
      35              40              45
Glu Ala Glu Ala Gly Arg Trp Leu Lys Pro Arg Arg Arg Arg Leu Gln
      50              55              60
Arg Pro Lys Ile Ala Arg
      65              70

```

```

<210> 1644
<211> 82
<212> PRT
<213> Homo sapiens

```

```

<400> 1644
Met Gly Met Gly Thr Leu Ile Ile Met Asn Val Trp Val Leu Phe Ile
  1              5              10              15
Pro Thr Arg Leu Arg Ile Asp Gln Gln Pro Val His Ile Lys Pro Ser
      20              25              30
Met Arg Val Leu Asp Lys Trp Val Ser Ala Phe Val His Lys Gly Phe
      35              40              45
Thr Trp Gly Thr Ser Glu Arg Ile Asn Thr Gly Ser Ser Ser Asp Ile
      50              55              60
Thr Leu Gly Ile Leu Asn Lys Cys Gly Trp Ala Val Phe Cys Ala Ala
      65              70              75              80
Pro *
      81

```

<210> 1645
 <211> 256
 <212> PRT
 <213> Homo sapiens

<400> 1645
 Met Ala Ala Leu Thr Val Thr Leu Met Val Leu Ser Ser Pro Leu Ala
 1 5 10 15
 Leu Ala Gly Asp Thr Gln Pro Arg Phe Leu Trp Gln Gly Lys Tyr Lys
 20 25 30
 Cys His Phe Phe Asn Gly Thr Glu Arg Val Gln Phe Leu Glu Arg Leu
 35 40 45
 Phe Tyr Asn Gln Glu Glu Phe Val Arg Phe Asp Ser Asp Val Gly Glu
 50 55 60
 Tyr Arg Ala Val Thr Glu Leu Gly Arg Pro Val Ala Glu Ser Trp Asn
 65 70 75 80
 Ser Gln Lys Asp Ile Leu Glu Asp Arg Arg Gly Gln Val Asp Thr Val
 85 90 95
 Cys Arg His Asn Tyr Gly Val Gly Glu Ser Phe Thr Val Gln Arg Arg
 100 105 110
 Val His Pro Glu Val Thr Val Tyr Pro Ala Lys Thr Gln Pro Leu Gln
 115 120 125
 His His Asn Leu Leu Val Cys Ser Val Ser Gly Phe Tyr Pro Gly Ser
 130 135 140
 Ile Glu Val Arg Trp Phe Arg Asn Gly Gln Glu Glu Lys Ala Gly Val
 145 150 155 160
 Val Ser Thr Gly Leu Ile Gln Asn Gly Asp Trp Thr Phe Gln Thr Leu
 165 170 175
 Val Met Leu Glu Thr Val Pro Arg Ser Gly Glu Val Tyr Thr Cys Gln
 180 185 190
 Val Glu His Pro Ser Val Met Ser Pro Leu Thr Val Glu Trp Arg Ala
 195 200 205
 Arg Ser Glu Ser Ala Gln Ser Lys Met Leu Ser Gly Val Gly Gly Phe
 210 215 220
 Val Leu Gly Leu Leu Phe Leu Gly Ala Gly Leu Phe Ile Tyr Phe Arg
 225 230 235 240
 Asn Gln Lys Gly His Ser Gly Leu Gln Pro Thr Gly Phe Leu Ser *
 245 250 255

<210> 1646
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1646
 Met Val Ala Trp Arg Ser Ala Phe Leu Val Cys Leu Ala Phe Ser Leu
 1 5 10 15
 Ala Thr Leu Val Gln Arg Gly Ser Gly Asp Phe Asp Asp Phe Asn Leu
 20 25 30
 Glu Asp Ala Val Lys Glu Thr Ser Ser Val Lys Gln Pro Trp Asp His
 35 40 45
 Thr Thr Thr Thr Thr Thr Asn Arg Pro Gly Thr Thr Arg Ala Pro Ala
 50 55 60
 Lys Pro Pro Gly Ser Gly Leu Asp Leu Ala Asp Ala Leu Asp Asp Gln
 65 70 75 80

```

Asp Asp Gly Arg Arg Lys Pro Gly Ile Gly Gly Arg Glu Arg Trp Asn
      85      90      95
His Val Thr Thr Thr Lys Arg Pro Val Thr Thr Arg Ala Pro Ala
      100      105      110
Asn Thr Leu Gly Asn Asp Phe Asp Leu Ala Asp Ala Leu Asp Asp Arg
      115      120      125
Asn Asp Arg Asp Asp Gly Arg Arg Lys Pro Ile Ala Gly Gly Gly Gly
      130      135      140
Phe Ser Asp Lys Asp Leu Glu Asp Ile Val Gly Gly Gly Glu Tyr Lys
      145      150      155      160
Pro Asp Lys Gly Lys Gly Asp Gly Arg Tyr Gly Ser Asn Asp Asp Pro
      165      170      175
Gly Ser Gly Met Val Ala Glu Pro Gly Thr Ile Ala Gly Val Ala Ser
      180      185      190
Ala Leu Ala Met Ala Leu Ile Gly Ala Val Ser Ser Tyr Ile Ser Tyr
      195      200      205
Gln Gln Lys Lys Phe Cys Phe Ser Ile Gln Gln Gly Leu Asn Ala Asp
      210      215      220
Tyr Val Lys Gly Glu Asn Leu Glu Ala Val Val Cys Glu Glu Pro Gln
      225      230      235      240
Val Lys Tyr Ser Thr Leu His Thr Gln Ser Ala Glu Pro Pro Pro Pro
      245      250      255
Pro Glu Pro Ala Arg Ile *
      260      262

```

```

<210> 1647
<211> 74
<212> PRT
<213> Homo sapiens

```

```

<400> 1647
Met Tyr Leu Leu Cys Trp Leu Tyr Ile Met Gly Val Leu Gly Ala Ser
  1      5      10      15
Cys Asn Trp His Val Gly Val Pro Phe Pro Gly Thr His Trp Pro Arg
      20      25      30
Ser Gln Asn His Leu Leu Trp Val Tyr Asn His Leu Asn Glu Leu Pro
      35      40      45
Val Pro Ala Gly Arg Ser Ser Glu Gln Leu Tyr Leu Gly Tyr Thr Glu
      50      55      60
Lys Tyr Gly Arg Arg Glu Arg Lys Ala *
      65      70      73

```

```

<210> 1648
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1648
Met Gly Leu Cys Gly Met Trp Val Leu Thr Ala Phe Leu Cys Glu Pro
  1      5      10      15
Met Gly Phe Arg His Arg Val Cys Pro His Arg Cys Val Arg Gly Ser
      20      25      30
Gly Arg Gly Ser Gly Cys Glu Cys Val Thr Met Trp Pro Cys Gly Ile

```

35 40 45
 Asn Ala Met Thr Gly Gly Phe Trp Val *
 50 55 57

<210> 1649
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1649
 Met Gly Val Leu Leu Val Ser Met Val Val Leu Phe Ile Phe Ala Ile
 1 5 10 15
 Leu Cys Ile Phe Ile Arg Asn Arg Ile Leu Glu Ile Val Tyr Ala Ser
 20 25 30
 Leu Gly Ala Leu Leu Phe Thr Cys Phe Leu Ala Val Asp Thr Gln Leu
 35 40 45
 Leu Leu Gly Asn Lys Gln Leu Ser Leu Ser Pro Glu Glu Tyr Val Phe
 50 55 60
 Ala Ala Leu Asn Leu Tyr Thr Asp Ile Ile Asn Ile Phe Leu Tyr Ile
 65 70 75 80
 Leu Thr Ile Ile Gly Arg Ala Lys Glu *
 85 89

<210> 1650
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1650
 Met Ala Leu Gly Val Pro Ile Ser Val Tyr Leu Leu Phe Asn Ala Met
 1 5 10 15
 Thr Ala Leu Thr Glu Glu Ala Ala Val Thr Val Thr Pro Pro Ile Thr
 20 25 30
 Ala Gln Gln Gly Asn Trp Thr Val Asn Lys Thr Glu Ala Asp Asn Ile
 35 40 45
 Glu Gly Pro Ile Ala Leu Lys Phe Ser His Leu Cys Leu Glu Asp His
 50 55 60
 Asn Ser Tyr Cys Ile Asn Gly Ala Cys Ala Phe His His Glu Leu Glu
 65 70 75 80
 Lys Ala Ile Cys Arg Cys Phe Thr Gly Tyr Thr Gly Glu Arg Cys Leu
 85 90 95
 Lys Leu Lys Ser Pro Tyr Asn Val Cys Ser Gly Glu Arg Arg Pro Leu
 100 105 110 112
 *

<210> 1651
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1651

```

Met Phe Ile Lys Phe Leu Arg Ile Leu Ile Ser Leu Gln Cys Ser Ser
 1           5           10           15
Phe Lys Phe Thr Val Thr Ala Lys Val Leu Phe Met Thr Tyr Lys Lys
           20           25           30
Arg Ala Gln Ser Asp Phe Phe Leu Val Phe Val Asp Arg Glu Arg Ser
           35           40           45
Pro *
49

```

<210> 1652

<211> 121

<212> PRT

<213> Homo sapiens

<400> 1652

```

Met Ser Arg Ala Gly Met Leu Gly Val Val Cys Ala Leu Leu Val Trp
 1           5           10           15
Ala Tyr Leu Ala Val Gly Lys Leu Val Val Arg Met Thr Phe Thr Glu
           20           25           30
Leu Cys Thr His His Pro Trp Ser Leu Arg Cys Glu Ser Phe Cys Arg
           35           40           45
Ser Arg Val Thr Ala Cys Leu Pro Ala Pro Ala Pro Trp Leu Arg Pro
           50           55           60
Phe Leu Cys Pro Met Leu Phe Ser Asp Arg Asn Pro Val Glu Cys His
           65           70           75           80
Leu Phe Gly Glu Ala Val Ser Asp Pro Val Cys Lys Gly Leu Leu Pro
           85           90           95
His Tyr Phe Trp His Pro Thr Phe Phe Pro Val Lys Ala Asn Cys Leu
           100           105           110
Val Ser Phe Cys Pro Thr Thr Val *
           115           120

```

<210> 1653

<211> 111

<212> PRT

<213> Homo sapiens

<400> 1653

```

Met Trp Ser Leu Trp Ile Trp Val Asp Gln His Gln Ala Arg Leu Ile
 1           5           10           15
Pro Ser Pro Gln Val Leu Leu Leu Leu Arg Glu Thr Pro Ser Thr
           20           25           30
Ala Ala Ala Val Ala Gly Trp Leu Val Val Ala Ser Met Ala Leu Leu
           35           40           45
Gln Leu His Ala Val Gly Gly Val Ala Leu Thr Ser Ser His Pro Phe
           50           55           60
Met Trp Ala Thr Gly Glu Glu Leu Arg Lys Pro Pro Trp Gln Gly Ser
           65           70           75           80
Ala Gly Ser Ala Ser Gly Val Glu Glu Leu Thr Gly Lys His Ser Cys
           85           90           95
Pro Gly Pro Glu Glu Pro Ala Thr Val Gln Lys Ala Pro Ala *

```

100

105

110

<210> 1654
 <211> 150
 <212> PRT
 <213> Homo sapiens

<400> 1654
 Met Trp Ile Cys Arg Val Lys Gln Ala Trp Leu Pro Pro Leu Leu Ser
 1 5 10 15
 Pro Leu Gly Pro Pro Thr Pro Trp Asp Pro Phe Tyr Ala Ala Pro Ser
 20 25 30
 Pro Pro Val Trp Val Gly Ser Gly Tyr Trp Tyr Arg Gly Leu Leu Ser
 35 40 45
 Pro Pro Asp Gly Gly Gln Gly Ser Phe Pro Pro His Leu Cys Pro Gln
 50 55 60
 Cys Pro Val Gln Ala Gln Ala Gln Ile Gly Pro Tyr Phe Arg Glu Leu
 65 70 75 80
 Gly Glu Pro Pro Ser Glu Thr Lys Trp Tyr Leu Asn Ser His Ser His
 85 90 95
 His Arg Ala Ala Gly Thr Gln Arg Arg Leu Arg Cys Leu Gln His Leu
 100 105 110
 Leu Gly Gly Gly Gly Pro Gly Ile Gly Ser Glu Ser Pro Asn Glu Gly
 115 120 125
 Pro Gly Gln Val Thr His Ala Cys Asn Leu Ser Thr Leu Gly Gly Lys
 130 135 140
 Asp Val Arg Ile Thr *
 145 149

<210> 1655
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1655
 Met Ser Arg Asn Leu Arg Thr Ala Leu Ile Phe Gly Gly Phe Ile Ser
 1 5 10 15
 Leu Ile Gly Ala Ala Phe Tyr Pro Ile Tyr Phe Arg Pro Leu Met Arg
 20 25 30
 Leu Glu Glu Tyr Lys Lys Glu Gln Ala Ile Asn Arg Ala Gly Ile Val
 35 40 45
 Gln Glu Asp Val Gln Pro Pro Gly Leu Lys Val Trp Ser Asp Pro Phe
 50 55 60
 Gly Arg Lys *
 65 67

<210> 1656
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1656

```

Met His Lys Tyr Leu Cys Val Phe Glu Tyr Leu Ser Asn Leu Ser Lys
 1          5          10          15
Cys Met Arg Leu Tyr Leu Ile Leu Leu Ala Ser Ile Cys Met Tyr Leu
          20          25          30
Cys Val Ala Arg Arg Val Phe Leu Phe Ala Ser Val Ser Thr Gln Gly
          35          40          45
Lys Ser Leu Met Tyr Ser Thr Gln Lys Val Val Lys *
 50          55          60

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<210> 1657

<211> 80

<212> PRT

<213> Homo sapiens

<400> 1657

```

Met Asn Trp Gln His Ser Thr Met Tyr Leu Phe Phe Ala Val Ser Gly
 1          5          10          15
Ile Val Asp Met Leu Thr Tyr Leu Val Ser His Val Pro Leu Gly Val
          20          25          30
Asp Arg Leu Val Met Gly Cys Gly Lys Tyr Ser Trp Lys Val Ser Ser
          35          40          45
Ser Thr Thr Thr Ser Thr Thr Gly Leu Arg Trp Thr Ser Thr Ser Thr
          50          55          60
His Ser Cys Cys Met Leu Cys Ser Glu Gly Val Leu Val Ser Pro *
 65          70          75          79

```

<210> 1658

<211> 160

<212> PRT

<213> Homo sapiens

<400> 1658

```

Met Ala Phe Leu Leu Tyr His Leu Val Tyr His Ile Pro Pro Met Ala
 1          5          10          15
Pro Val Ser Phe Val Phe Glu Thr Lys Ser Arg Ser Ala Ala Gln Ala
          20          25          30
Gly Val Gln Trp His Asp Pro Gly Ser Pro Gln Pro Leu Pro Pro Arg
          35          40          45
Phe Lys Arg Phe Ser Cys His Gly Leu Asn Ile Lys Phe Ala Phe Phe
          50          55          60
Ser His Leu Lys Glu Leu His Leu Asp Ser Gly His Cys Phe Ile Phe
          65          70          75          80
Ile Arg Leu Val Lys Gly Ala Val Cys Leu Ile His Val Gln Ile Arg
          85          90          95
Ile Pro Ser Ala Asp Glu Asp Ile Thr Ile Leu Phe Phe Ile Val Ser
          100          105          110
Lys His Phe Leu Glu Ser Val Phe Lys Met Leu Gln Trp Ser Gln Met
          115          120          125
Thr Leu Ala Thr Val Lys Thr Thr Phe Ile Gly Leu Asn Glu Phe Ile
          130          135          140
Cys Ser Pro Ser Thr Leu Pro Ser Gly Lys Lys Asn Gly Leu Ile *

```


145

150

155

159

<210> 1659
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1659
 Met Trp Arg Leu Pro His Ser Gln Phe Ile His Ile Val Ile Leu Pro
 1 5 10 15
 Leu Lys Val Phe Leu Phe Leu Phe Cys Phe Leu Arg Trp Ser Phe Ser
 20 25 30
 Leu Val Ala Gln Ala Gly Val Gln Trp Arg Asp Leu Gly Pro Leu Gln
 35 40 45
 Pro Pro Pro Pro Arg Leu Lys Arg Phe Phe Cys Leu Ser Leu Pro Ser
 50 55 60
 Ser Trp Asp Tyr Arg His Ser Pro Pro His Pro Ala Asn Phe Tyr Thr
 65 70 75 80
 Phe Gly Arg Asp Gly Val Ser Pro Cys *
 85 89

<210> 1660
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1660
 Met Cys Ala His Leu Val Cys Val Lys Trp Cys Leu Val Ile Leu Ile
 1 5 10 15
 Cys Ile Phe Gln Asn Thr Asn Glu Val Glu Gln Leu Ile Leu Cys Val
 20 25 30
 Leu Leu Ile Pro Leu Ser Ser Ser Met Thr Asp Leu Phe Leu Ser Leu
 35 40 45
 Cys Val Cys Val Phe Cys Tyr *
 50 55

<210> 1661
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1661
 Met Leu Gly Met Ile Ser Met Leu Leu Asn Ala Leu Lys Leu Leu Val
 1 5 10 15
 Tyr Leu Thr Glu Cys Cys Met Ala Leu Glu Glu Arg Val His Ser Val
 20 25 30
 Leu Ile Gly Trp Ser Val Ser Phe Lys Arg Ile Gln Arg Gln Leu Asn
 35 40 45
 Gln Val Gly Leu Ile Glu Phe Phe Lys Met Val Leu Cys Ser Asn Thr
 50 55 60

Asp Gly Thr Glu Gly His Tyr Pro Lys *
 65 70 73

<210> 1662
 <211> 271
 <212> PRT
 <213> Homo sapiens

<400> 1662
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
 100 105 110
 Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
 115 120 125
 Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
 130 135 140
 His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
 145 150 155 160
 His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
 165 170 175
 Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
 180 185 190
 Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
 195 200 205
 Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
 210 215 220
 Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
 225 230 235 240
 Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
 245 250 255
 Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
 260 265 270

<210> 1663
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1663
 Met Pro His Ile Gln Thr Leu Leu Arg Thr Leu Phe Ala Ser His Leu
 1 5 10 15
 Leu Val Ser Leu Trp Gln Ser Glu Pro Met Ala Lys Pro Arg Met Arg

```

          20          25          30
Lys Tyr Asn Thr Ser Ser Glu Tyr Leu Ser Glu Leu Asp Thr Glu Ala
          35          40          45
Ser Arg Val Ser *
          50          52

```

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<210> 1664
<211> 271
<212> PRT
<213> Homo sapiens

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          <400> 1664
Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
  1          5          10          15
Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
          20          25          30
Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
          35          40          45
Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
          50          55          60
Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
          65          70          75          80
Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
          85          90          95
Ala Arg Val Gln Ala Leu Gly Trp His Gly Pro Leu Leu Ala Leu Ser
          100          105          110
Phe Leu Ala Phe Trp Val Pro Trp Ala Pro Ala Gly Leu Gln Phe Leu
          115          120          125
Leu Cys Leu Cys Leu Tyr Asp Gly Phe Leu Thr Leu Val Asp Leu His
          130          135          140
His His Ala Leu Leu Ala Asp Leu Ala Leu Ser Ala His Asp Arg Thr
          145          150          155          160
His Leu Asn Phe Tyr Cys Ser Leu Phe Ser Ala Ala Gly Ser Leu Ser
          165          170          175
Val Phe Ala Ser Tyr Ala Phe Trp Asn Lys Glu Asp Phe Ser Ser Phe
          180          185          190
Arg Ala Phe Cys Val Thr Leu Ala Val Ser Ser Gly Leu Gly Phe Leu
          195          200          205
Gly Ala Thr Gln Leu Leu Arg Arg Arg Val Glu Ala Ala Arg Lys Asp
          210          215          220
Pro Gly Cys Ser Gly Leu Val Val Asp Ser Gly Leu Cys Gly Glu Glu
          225          230          235          240
Leu Leu Val Gly Ser Glu Glu Ala Asp Ser Ile Thr Leu Gly Arg Tyr
          245          250          255
Leu Arg Gln Leu Ala Arg His Arg Asn Phe Leu Cys Phe Ser *
          260          265          270

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<210> 1665
<211> 284
<212> PRT
<213> Homo sapiens

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<400> 1665

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Met Asp Glu Lys Ser Asn Lys Leu Leu Leu Ala Leu Val Met Leu Phe
 1          5          10          15
Leu Phe Ala Val Ile Val Leu Gln Tyr Val Cys Pro Gly Thr Glu Cys
          20          25          30
Gln Leu Leu Arg Leu Gln Ala Phe Ser Ser Pro Val Pro Asp Pro Tyr
          35          40          45
Arg Ser Glu Asp Glu Ser Ser Ala Arg Phe Val Pro Arg Tyr Asn Phe
          50          55          60
Thr Arg Gly Asp Leu Leu Arg Lys Val Asp Phe Asp Ile Lys Gly Asp
          65          70          75          80
Asp Leu Ile Val Phe Leu His Ile Gln Lys Thr Gly Gly Thr Thr Phe
          85          90          95
Gly Arg His Leu Val Arg Asn Ile Gln Leu Glu Gln Pro Cys Glu Cys
          100          105          110
Arg Val Gly Gln Lys Lys Cys Thr Cys His Arg Pro Gly Lys Arg Glu
          115          120          125
Thr Trp Leu Phe Ser Arg Phe Ser Thr Gly Trp Ser Cys Gly Leu His
          130          135          140
Ala Asp Trp Thr Glu Leu Thr Ser Cys Val Pro Ser Val Gly Asp Gly
          145          150          155          160
Lys Arg Asp Ala Arg Leu Arg Pro Ser Arg Trp Arg Ile Phe His Ile
          165          170          175
Leu Tyr Ala Ala Cys Thr Asp Ile Arg Gly Ser Pro Asn Thr Asn Ala
          180          185          190
Gly Ala Asn Ser Pro Ser Phe Thr Lys Thr Arg Asn Thr Ser Lys Ser
          195          200          205
Trp Lys Asn Phe His Tyr Ile Thr Ile Leu Gln Asp Pro Gly Ala Arg
          210          215          220
Ser Leu Ser Glu Trp Arg Pro Val Leu Lys Arg Gly Thr Leu Glu Gly
          225          230          235          240
Leu Leu Ala Cys Trp Pro Trp Lys Ala Pro Pro Pro Leu Lys Lys Leu
          245          250          255
Ser Thr Trp Tyr Pro Gly Glu Glu Leu Val Trp Leu Ala Pro Leu Gln
          260          265          270
Lys Ile Ile Gly Leu Ala Leu Leu Ile Tyr Pro *
          275          280          283

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<210> 1666
<211> 67
<212> PRT
<213> Homo sapiens

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```

<400> 1666
Met Thr Leu Val Leu Phe Leu Val Leu Ala Leu Met Ile Thr Ile Cys
 1          5          10          15
Ile Leu Ser Tyr His Ser His Leu Leu Ile Asn Ser Asn Leu Ile Pro
          20          25          30
Val Lys Tyr Arg Asn Phe Pro Ser Ile Leu Leu His Phe Leu His Leu
          35          40          45
Trp Leu Ser Phe Cys His Ile Ser His Met His Ile Cys His Asn Leu
          50          55          60
Leu Ile *
          65          66

```

<210> 1667
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1667
 Met Asn Thr His Trp Asn Ile Leu Pro Val Glu Arg Ser Cys Pro Leu
 1 5 10 15
 Trp Ile Ser Ser Glu Leu Ser Tyr Cys Ser Ile Lys Leu Leu Phe Ile
 20 25 30
 Leu Leu Thr Leu His Leu Pro Ala Tyr Leu Ile Leu Pro Gly His Lys
 35 40 45
 Ile Arg Thr Gln Asp Leu Pro Asn Glu Ala Asn Arg Ala Val Thr Gln
 50 55 60
 Thr Gly Leu Arg His Ala Leu Tyr Gln Ser Ile Ser Cys Trp *
 65 70 75 78

<210> 1668
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1668
 Met Trp Gly Leu Leu Ile Pro Cys Ile Leu Gly Cys Met Lys Leu Pro
 1 5 10 15
 His Asn Leu Leu Met Leu Phe Ser Leu Glu Thr Phe Leu Thr Leu Arg
 20 25 30
 Phe Ile Leu Asp Ser Phe Tyr Ser Tyr Val Phe Lys Pro Thr Asn Lys
 35 40 45
 Arg Phe Cys Asn Ile *
 50 53

<210> 1669
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1669
 Met Met Ala Gly Ile Arg Ala Leu Phe Met Tyr Leu Trp Leu Gln Leu
 1 5 10 15
 Asp Trp Val Ser Arg Gly Glu Ser Val Gly Leu His Leu Pro Thr Leu
 20 25 30
 Ser Val Gln Glu Gly Asp Asn Ser Ile Ile Asn Cys Ala Tyr Ser Asn
 35 40 45
 Ser Ala Ser Asp Tyr Phe Ile Trp Tyr Lys Gln Glu Ser Gly Lys Gly
 50 55 60
 Pro Gln Phe Ile Ile Asp Ile Arg Ser Asn Met Asp Lys Arg Gln Gly
 65 70 75 80
 Gln Arg Val Thr Val Leu Leu Asn Lys Thr Val Lys His Leu Ser Leu
 85 90 95
 Gln Ile Ala Ala Thr Gln Pro Gly Asp Ser Ala Val Tyr Phe Cys Ala
 100 105 110

Glu Ile Pro Glu Gln Arg *
 115 118

<210> 1670
 <211> 116
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Cys Leu Leu Cys Cys Glu Cys Leu Phe His Leu Trp Lys Arg Ile
 1 5 10 15
 Asn Trp Trp Gln Gly Phe Cys Ser Phe Tyr Leu Leu Leu Trp Val Gly
 20 25 30
 Leu Leu Ser Phe Pro Pro Asp Pro Pro Trp Lys Ser Phe Thr Pro Ala
 35 40 45
 Ile Leu Phe Leu Ala Trp Gly Thr Gly Ser Ser Pro Gly Arg His Arg
 50 55 60
 Phe Ser Leu Pro Thr Asp Arg Arg Pro Ser Ala His Ser Pro Phe Leu
 65 70 75 80
 Ser Thr Leu Gln His Ser Ile Arg Thr Leu Phe His Ser Pro Ile Arg
 85 90 95
 Ser Ser Arg Phe Ala Phe Val Ser Ser Leu His Ser Tyr Thr Ser Ile
 100 105 110
 Pro Ser Leu Pro
 115 116

<210> 1671
 <211> 70
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ser His Cys Gly Leu Leu Phe Leu Val Val Thr Trp Leu Leu Ser
 1 5 10 15
 Phe Ile Phe Leu Val Cys Lys Met Arg Ile Thr Phe Leu Phe Cys Leu
 20 25 30
 Leu Thr Val Asp Met Lys Pro Asn Lys Val Leu Tyr Met Lys Cys Phe
 35 40 45
 Lys Cys Ile Ile Leu Leu Ser Cys Tyr Pro Leu Lys Phe Leu Val Ile
 50 55 60
 Arg Asn Phe Glu Ile *
 65 69

<210> 1672
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Arg Val Leu Cys Ala Phe Pro Glu Ala Met Pro Ser Ser Asn Ser

```

      1           5           10           15
Arg Pro Pro Ala Cys Leu Ala Pro Gly Ala Leu Tyr Leu Ala Leu Leu
      20           25           30
Leu His Leu Ser Leu Ser Ser Gln Ala Gly Asp Arg Arg Pro Leu Pro
      35           40           45
Val Asp Arg Ala Ala Gly Leu Lys Glu Lys Thr Leu Ile Leu Leu Asp
      50           55           60
Val Ser Thr Lys Asn Pro Val Arg Thr Val Asn Glu Asn Phe Leu Ser
      65           70           75           80
Leu Gln Leu Asp Pro Ser Ile Ile His Asp Gly Trp Leu Asp Phe Leu
      85           90           95
Ser Ser Lys Arg Leu Val Thr Leu Ala Arg Gly Leu Ser Pro Ala Phe
      100          105          110
Leu Arg Phe Gly Gly Lys Arg Thr Asp Phe Leu Gln Phe Gln Asn Leu
      115          120          125
Arg Asn Pro Ala Lys Ser Arg Gly Gly Pro Gly Pro Asp Tyr Tyr Leu
      130          135          140
Lys Asn Tyr Glu Asp Asp Ile Val Arg Ser Asp Val Ala Leu Asp Lys
      145          150          155          160
Gln Lys Gly Cys Lys Ile Ala Gln His Pro Asp Gly Met Leu Glu Pro
      165          170          175
Pro Arg Glu Lys Ala Ala Gln Met His Leu Val Leu Leu Lys Glu Gln
      180          185          190
Phe Ser Asn Thr Tyr Ser Asn Leu Ile Leu Thr Glu Pro Asn Asn Tyr
      195          200          205
Arg Thr Met His Gly Arg Ala Val Asn Gly Ser Gln Leu Gly Lys Asp
      210          215          220
Tyr Ile Gln Leu Lys Ser Leu Leu Gln Pro Ile Arg Ile Tyr Ser Arg
      225          230          235          240
Ala Ser Leu Tyr Gly Pro Asn Ile Val Arg Pro Arg Lys Asn Val Ile
      245          250          255
Ala Leu Leu Asp Gly Leu *
      260          262

```

<210> 1673

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1673

```

Met Lys Trp Lys Thr Gly Val Ala Ile Phe Val Val Val Val Val Tyr
      1           5           10           15
Leu Val Thr Gly Gly Leu Val Phe Arg Ala Leu Glu Gln Pro Phe Glu
      20           25           30
Ser Ser Gln Lys Asn Thr Ile Ala Leu Glu Lys Ala Glu Phe Leu Arg
      35           40           45
Asp His Val Cys Val Ser Pro Gln Glu Leu Glu Thr Leu Ile Gln His
      50           55           60
Ala Leu Asp Ala Asp Asn Ala Gly Val Ser Pro Ile Gly Asn Ser Ser
      65           70           75           80
Asn Asn Ser Ser His Trp Asp Leu Gly Ser Ala Phe Phe Phe Ala Gly
      85           90           95
Thr Val Ile Thr Thr Ile Gly Tyr Gly Asn Ile Ala Pro Ser Thr Glu
      100          105          110
Gly Gly Lys Ile Phe Cys Ile Leu Tyr Ala Ile Phe Gly Phe Pro Leu
      115          120          125

```

Phe Gly Phe Leu Leu Ala Gly Ile Glu Asp Gln Leu Gly Thr Ile Phe
 130 135 140
 Gly Lys Ser Ile Ala Arg Val Glu Lys Val Phe *
 145 150 155

<210> 1674
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1674
 Met Cys Cys Val Ile Cys Ser Lys Gln Tyr Val Leu Leu Ser Ile Leu
 1 5 10 15
 Leu Cys Leu Leu Ala Ser Gly Ser Val Asp Phe Phe Leu Leu Pro His
 20 25 30
 Ser Val Leu Ala Asp Asp Asp Gly Ile Lys Val Val Lys Val Thr Phe
 35 40 45
 Asn Lys Gln Asp Ser Leu Val Ile Leu Thr Ile Met Val Ser Leu Thr
 50 55 60
 Val Ser Phe Pro Gly Leu Cys Thr Cys Gln Ala Gly Thr Gln Asp Thr
 65 70 75 80
 Tyr Thr *
 82

<210> 1675
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1675
 Met Val His Cys Leu Ile Cys Met Trp Thr Cys Trp Pro Thr Gly Ala
 1 5 10 15
 Ile Leu His Arg Val Cys Arg Thr His Trp Pro Arg Gly Val Ser His
 20 25 30
 Thr His Val Trp Met His Trp Pro Thr Cys Val Val Ser Arg Leu Phe
 35 40 45
 Val Asp Val Leu Gly *
 50 53

<210> 1676
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1676
 Met Gly Val Met Ala Met Leu Met Leu Pro Leu Leu Leu Gly Ile
 1 5 10 15
 Ser Gly Leu Leu Phe Ile Tyr Gln Glu Val Ser Arg Leu Trp Ser Lys
 20 25 30
 Ser Ala Val Gln Asn Lys Val Val Val Ile Thr Asp Ala Ile Ser Gly


```

      35      40      45
Leu Gly Lys Glu Cys Ala Arg Val Phe His Thr Gly Gly Ala Arg Leu
   50      55      60
Val Leu Cys Gly Lys Asn Trp Glu Arg Leu Glu Asn Leu Tyr Asp Ala
   65      70      75      80
Leu Ile Ser Val Ala Asp Pro Ser Lys Thr Phe Thr Pro Lys Leu Val
      85      90      95
Leu Leu Asp Leu Ser Asp Ile Ser Cys Val Pro His Val Ala Lys Glu
      100      105      110
Ala Leu Asp Cys Tyr Gly *
      115      118

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<210> 1677
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

      <400> 1677
Met Arg Tyr Lys Cys Val Leu Ser Lys Ile Leu Trp Phe Cys Pro Trp
   1      5      10      15
Lys Tyr Val Trp Lys Asn Ser Phe Phe Asn Leu Glu Gly Met Phe Met
      20      25      30
Phe Ile Glu Val Thr Cys Arg His Tyr Ser Thr Cys Gly Ile Phe Lys
      35      40      45      48
*

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<210> 1678
 <211> 127
 <212> PRT
 <213> Homo sapiens

```

      <400> 1678
Met Gln Thr Lys Gly Gly Gln Thr Trp Ala Arg Arg Ala Leu Leu Leu
   1      5      10      15
Gly Ile Leu Trp Ala Thr Ala His Leu Pro Leu Ser Gly Thr Ser Leu
      20      25      30
Pro Gln Arg Leu Pro Arg Ala Thr Gly Asn Ser Thr Gln Cys Val Ile
      35      40      45
Ser Pro Ser Ser Glu Phe Pro Glu Gly Phe Phe Thr Arg Gln Glu Arg
      50      55      60
Arg Asp Gly Gly Ile Ile Ile Tyr Phe Leu Ile Ile Val Tyr Met Phe
      65      70      75      80
Met Ala Ile Ser Ile Val Cys Asp Glu Tyr Phe Leu Pro Ser Leu Glu
      85      90      95
Ile Ile Ser Glu Tyr Ile Gly Asn Lys Lys Glu Met Gln Val Leu Ile
      100      105      110
Pro Gly Arg Ile Val Ser Lys Leu Lys Lys Leu Gly Phe Lys *
      115      120      125      126

```

<210> 1679

<211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1679
 Met Ile Phe Phe Ile Lys Ala Pro Leu Tyr Leu Leu Gln Ser Met Met
 1 5 10 15
 Asp Cys Leu Tyr Ala Arg Arg Ile Pro Cys Ile Thr Asp Cys Ala Met
 20 25 30
 Ala Glu Ile Glu Lys Leu Gly Gln Lys Tyr Pro Val Ala Leu Arg Ile
 35 40 45
 Ala
 49

<210> 1680
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1680
 Met Val Tyr Glu Val Phe Ile Asn Lys Ala Asn Ile Leu Leu Leu Leu
 1 5 10 15
 Phe Leu Arg Gln Ser Leu Ala Val Leu Pro Arg Leu Glu Cys Ser Gly
 20 25 30
 Ala Ile Ser Ala Arg Cys Asn Leu His Leu Arg Ile Pro Pro Asp Phe
 35 40 45
 His Arg Ser Thr Met Gly Gly Gly Gly Gly
 50 55 58

<210> 1681
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1681
 Met Leu Ser Gly Trp Val Gln Cys Pro Leu Leu Gln Arg Val His Phe
 1 5 10 15
 Tyr Ala Phe Ser Val Gly Pro Phe His Arg Lys Ile Trp Gly Asp Val
 20 25 30
 Ser Phe Pro Leu Thr Phe Tyr Phe Lys Asn Leu Gln Thr Gln Lys Ser
 35 40 45 48
 *

<210> 1682
 <211> 78
 <212> PRT
 <213> Homo sapiens

<400> 1682

```

Met Thr Gly Leu Phe Leu His His Asn Pro Gly Ile Leu Leu Ala Pro
 1          5          10          15
Ser Val Leu Asp Leu Leu Phe Pro Gly Ser His Ile Phe Ile Phe Ser
          20          25          30
Leu Phe Leu Ser Leu Cys Pro Cys Phe Gly Asp Thr Ile Leu Val Ala
          35          40          45
Pro Ser Asp Lys Val Tyr Lys Asp Thr Phe Ile Ile Lys Ile Tyr Pro
          50          55          60
Tyr Cys Ile Phe Glu Asn Phe Phe Thr Phe Leu Phe Thr *
          65          70          75          77

```

<210> 1683

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1683

```

Met Ser Leu Gly Ser Ile Asn His Phe Leu Phe Phe Ile Gln Leu Leu
 1          5          10          15
Val Leu Lys Asn Ser Tyr Cys Met Leu Leu Lys Met Lys Gln Asn Lys
          20          25          30
Lys Leu Lys Lys Ile Met Cys Leu Leu Phe Leu Met Leu Ser Ser Tyr
          35          40          45
His Leu Ile *
          50 51

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<210> 1684

<211> 165

<212> PRT

<213> Homo sapiens

<400> 1684

```

Met Pro Ala Pro Pro Leu Pro Gly Gly Trp Asn Thr Trp Gly Pro Ser
 1          5          10          15
Leu Ser Leu Pro Leu Leu Leu Leu Gly Ala Val Ala Met Ala Leu Gly
          20          25          30
Val Arg Pro Pro Gly Gln Val Gly Leu Ser Pro Ile Ala Thr Ala Ser
          35          40          45
Thr Val Gly Val Pro Arg Cys Leu Gln Thr Ala Phe Arg Gly Asp Ala
          50          55          60
Gly Trp His Ser Cys Ala Gln Gln Gly Ala Cys Val Ala Leu His Pro
          65          70          75          80
Ser Glu Arg Arg Leu Gly Ile Ser Asp Glu Ala His Ser Arg Ser Arg
          85          90          95
Trp Gly Gly Glu Asp Ser Pro Ser Pro Leu Thr Gly Pro Pro Leu Ser
          100          105          110
Pro Ser Pro Pro Asp Cys Leu Ser Leu Pro Arg Leu Thr Pro Leu Arg
          115          120          125
Leu Pro Pro Pro Pro Phe Pro Phe Leu Gly Pro Ile Pro Ser Leu Pro
          130          135          140
Pro Pro Pro Ser Pro Pro Gln Pro Pro Ala Thr Ala Pro Pro Pro
          145          150          155          160

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Ser Leu Arg Phe *
164

<210> 1685
<211> 153
<212> PRT
<213> Homo sapiens

<400> 1685
Met Gly Thr Ala Ala Leu Gly Pro Val Trp Ala Ala Leu Leu Leu Phe
1 5 10 15
Leu Leu Met Cys Glu Ile Pro Met Val Glu Leu Thr Phe Asp Arg Ala
20 25 30
Val Ala Ser Gly Cys Gln Arg Cys Cys Asp Ser Glu Asp Pro Leu Asp
35 40 45
Pro Ala His Val Ser Ser Ala Ser Ser Ser Gly Arg Pro His Ala Leu
50 55 60
Pro Glu Ile Arg Pro Tyr Ile Asn Ile Thr Ile Leu Lys Ala Gln Arg
65 70 75 80
Ala Gln His His Ala Glu Pro Glu Cys Asp Ala Gly Pro Gly Leu Arg
85 90 95
Gly Pro Arg Leu Gly Ala Ala Leu Gln Ala Pro Ala Arg Glu Arg His
100 105 110
Leu Gln Gln Arg Leu Arg His Leu His His Leu Gln Arg Pro Pro His
115 120 125
Gln Gly Arg Gly Arg Leu Arg Ala Ser Gly Pro Pro Ser Arg Leu Glu
130 135 140
Ser Ser Ala Asp Pro Ala Pro Ala *
145 150 152

<210> 1686
<211> 141
<212> PRT
<213> Homo sapiens

<400> 1686
Met Arg Arg Thr Ala Phe Ile Leu Gly Ser Gly Leu Leu Ser Phe Val
1 5 10 15
Ala Phe Trp Asn Ser Val Thr Trp His Leu Gln Arg Phe Trp Gly Ala
20 25 30
Ser Gly Tyr Phe Trp Gln Ala Gln Trp Glu Arg Leu Leu Thr Thr Phe
35 40 45
Glu Gly Lys Glu Trp Ile Leu Phe Phe Ile Gly Ala Ile Gln Val Pro
50 55 60
Cys Leu Phe Phe Trp Ser Phe Asn Gly Leu Leu Leu Val Val Asp Thr
65 70 75 80
Thr Gly Lys Pro Asn Phe Ile Ser Arg Tyr Arg Ile Gln Val Gly Lys
85 90 95
Asn Glu Pro Val Asp Pro Val Lys Leu Arg Gln Ser Ile Arg Thr Val
100 105 110
Leu Phe Asn Gln Cys Met Ile Ser Phe Pro Met Gly Gly Leu Pro Leu
115 120 125
Ser Leu Pro Gln Met Val Glu Arg Pro Leu Thr Pro *

130

135

140

<210> 1687
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1687
 Met Leu Thr Glu Leu Leu Leu Cys Val Leu Val Leu Cys Val Phe
 1 5 10 15
 Met Ser Arg Gly Ser Cys Leu Phe Ala Thr Ile Arg Glu Phe Trp Pro
 20 25 30
 Pro Trp Val Gly Cys Gly Arg Gly Glu Asn Pro Ser Val Gly Thr Val
 35 40 45
 Asp Pro Ser Cys Arg Leu Cys Ala Pro Gly His Val *
 50 55 60

<210> 1688
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1688
 Met Val Ala Ala Thr Pro Pro Gly Ile Ala Arg Trp Ala Leu Val Ile
 1 5 10 15
 Ser Phe Pro Pro Val Thr Pro Thr Ala Pro His Met Cys Ala Ala Gln
 20 25 30
 Pro Trp Gly Arg His Gly Ser Ala Glu Gly Thr Thr Gln Leu Pro Ala
 35 40 45
 Pro Arg Ser Ser Pro Ser Cys Gln Ser Trp Asp Lys Leu Leu Leu Leu
 50 55 60
 Leu Leu Glu *
 65 67

<210> 1689
 <211> 74
 <212> PRT
 <213> Homo sapiens

<400> 1689
 Met Ala Ala Thr Met Val Ser Ile Ala Ser Phe Arg Leu Phe Leu Met
 1 5 10 15
 Ser Cys Thr Leu Val Ala Phe Ser Pro Ser Leu Leu Leu Leu Ala Ala
 20 25 30
 Cys Gly Ser Ser Pro Pro Ser Pro Leu Asn Pro Leu Thr Cys Arg
 35 40 45
 Ile Leu Ile Cys Phe Thr Met Val Leu Leu Pro Asp Ser Pro Ala Pro
 50 55 60
 Ser Ser Ser Arg Arg Cys Val Ala Arg *
 65 70 73

<210> 1690
 <211> 114
 <212> PRT
 <213> Homo sapiens

<400> 1690
 Met His Met Cys Ala Phe Leu His Val Trp Thr Cys Ala Cys Met His
 1 5 10 15
 Leu Cys Val Cys Val Cys Ala Glu Thr Gly Lys Gly Val Lys Val Leu
 20 25 30
 Val Arg Glu Pro Gly Ser Phe Leu Phe Pro Asn Leu Ser Cys Ser Lys
 35 40 45
 Glu Gly Trp Gly Trp Gly Gln Pro Leu Leu Lys Val Ile Gly Glu Glu
 50 55 60
 Arg Phe Ser Asp Ser Glu Val Thr Ala Ser Val Ala Gln Ala Val Ser
 65 70 75 80
 Leu Val Thr Val Ile Leu Gln Phe Ser Asp Pro His Val Ser Phe Arg
 85 90 95
 Gly Lys Arg Lys Lys Gly Thr Leu Trp Trp Val Leu Gly Gly Lys Arg
 100 105 110
 Lys *
 113

<210> 1691
 <211> 69
 <212> PRT
 <213> Homo sapiens

<400> 1691
 Met Ala Phe Leu Leu Ser Thr Leu Leu Asn His Tyr Leu Ala Cys Lys
 1 5 10 15
 His Ser Ser Glu Leu Trp Leu Gln Ser Ser Leu Asn Asn Leu Gly Lys
 20 25 30
 Lys Lys Asp Lys Ala Tyr Ile Phe Thr Val Leu Ala Leu Lys His Ile
 35 40 45
 Pro Gln Met Pro Leu Arg Ile Tyr Phe Val Leu Gly Gln Ser Trp Trp
 50 55 60
 Leu Met Pro Val Ser
 65 69

<210> 1692
 <211> 103
 <212> PRT
 <213> Homo sapiens

<400> 1692
 Met Leu Gly Pro Thr Val Phe Asn Ile Lys Phe Val Phe Leu Ile Thr
 1 5 10 15
 Ala Leu Gly Ala Leu Pro Ser Ser Leu Pro His Ala His Ser Ala Ala

```

      20      25      30
Trp Thr Leu Leu Pro Gly Pro Pro Ala Gln Gln His Ser Thr Arg Leu
      35      40      45
Trp Thr Phe Ser Asn Met Ala Gly Val Glu Leu Cys Pro Gly Pro Gln
      50      55      60
Pro Ala Gly Pro Ala Ala Pro Val Gly Arg Thr Pro Pro Val Leu Ser
      65      70      75      80
Ala Phe Thr Thr Thr Ser Ser Phe Gly Ser Gly Cys Gly Val Thr Ser
      85      90      95
Ser Arg Glu Leu Pro Arg Arg
      100      103

```

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<210> 1693
<211> 48
<212> PRT
<213> Homo sapiens

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```

<400> 1693
Met Gly Arg Phe Leu Asp Glu Gln Trp Val Tyr Phe Ile Ile Leu Leu
  1      5      10      15
Leu Leu Phe Phe Phe Arg Asp Ser Leu Ala Leu Ser Pro Arg Leu Glu
      20      25      30
Cys Ser Gly Ala Ile Ser Val His Ser Lys Leu Arg Leu Pro Gly Ser
      35      40      45      48

```

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<210> 1694
<211> 92
<212> PRT
<213> Homo sapiens

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```

<400> 1694
Met Ile Phe Ala Cys Glu Cys Val Leu Arg Leu Leu Leu Ile Leu Asn
  1      5      10      15
Val Ser Phe Leu Gly Ala Val Ser Glu Glu Thr Thr Asn Ala Leu Glu
      20      25      30
Thr Trp Gly Ala Leu Arg Gln Asp Ile Asn Leu Asp Ile Pro Ser Phe
      35      40      45
Leu Leu Arg Glu His Ile Asp Glu Leu Ile Cys Asp Lys Thr Leu Asp
      50      55      60
Ser Lys Lys Ile Ala His Phe Arg Ala Glu Lys Glu Thr Phe Ser Glu
      65      70      75      80
Lys Asp Thr Tyr Cys Tyr Leu Lys Met Glu Leu *
      85      90      91

```

```

<210> 1695
<211> 83
<212> PRT
<213> Homo sapiens

```

<400> 1695

```

Met Ala Val Gln Gln Gln Phe Ile Ile Val Val Leu Arg Leu Val Phe
 1          5          10          15
Pro Val Ala Gly Thr Thr Arg Ala Pro Leu His Trp Val Gly Ala Ile
          20          25          30
Pro Gly Trp Glu Trp Pro Pro Gly Asp Asp Ala Tyr Pro Ser Leu Leu
          35          40          45
Ala Pro Ser Gln His Pro Tyr Ser Gly Glu Ala Leu Cys Leu Leu Leu
          50          55          60
Leu Pro Ser Ile Val Leu Leu Glu Ser Cys Arg Lys Val Met Glu Arg
 65          70          75          80
Gly Leu *
      82

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<210> 1696

<211> 159

<212> PRT

<213> Homo sapiens

<400> 1696

```

Met Leu Trp Leu Phe Gln Ser Leu Leu Phe Val Phe Cys Phe Gly Pro
 1          5          10          15
Gly Asn Val Val Ser Gln Ser Ser Leu Thr Pro Leu Met Val Asn Gly
          20          25          30
Ile Leu Gly Glu Ser Val Thr Leu Pro Leu Glu Phe Pro Ala Gly Glu
          35          40          45
Lys Val Asn Phe Ile Thr Trp Leu Phe Asn Glu Thr Ser Leu Ala Phe
          50          55          60
Ile Val Pro His Glu Thr Lys Ser Pro Glu Ile His Val Thr Asn Pro
 65          70          75          80
Lys Gln Gly Lys Arg Leu Asn Phe Thr Gln Ser Tyr Ser Leu Gln Leu
          85          90          95
Ser Asn Leu Lys Met Glu Asp Thr Gly Ser Tyr Arg Ala Gln Ile Ser
          100          105          110
Thr Lys Thr Ser Ala Lys Leu Ser Ser Tyr Thr Leu Arg Ile Leu Thr
          115          120          125
Leu Tyr Pro Ile Val Gly Asn Gly Ile Trp Gly Asn Lys Asn Phe Leu
          130          135          140
Thr Thr Leu Ala Arg Gly Asn Val Lys Leu Asp Gly Leu His Glu
145          150          155          159

```

<210> 1697

<211> 105

<212> PRT

<213> Homo sapiens

<400> 1697

```

Met Glu Pro Arg Leu Phe Cys Trp Thr Thr Leu Phe Leu Leu Ala Gly
 1          5          10          15
Trp Cys Leu Pro Gly Leu Pro Cys Pro Ser Arg Cys Leu Cys Phe Lys
          20          25          30
Ser Thr Val Arg Cys Met His Leu Met Leu Asp His Ile Pro Gln Val

```



```

      35      40      45
Pro  Gln Thr Thr Val Leu Asp Leu Arg Phe Asn Arg Ile Arg Glu
   50      55      60
Ile  Pro Gly Ser Ala Phe Lys Lys Leu Lys Asn Leu Asn Thr Leu Tyr
   65      70      75      80
Leu  Tyr Lys Asn Glu Ile His Ala Leu Asp Lys Gln Thr Phe Lys Gly
      85      90      95
Leu  Ile Ser Leu Glu His Leu Tyr Ile
      100      105

```

<210> 1698
 <211> 195
 <212> PRT
 <213> Homo sapiens

```

      <400> 1698
Met  Pro Ser Trp Ile Gly Ala Val Ile Leu Pro Leu Leu Gly Leu Leu
   1      5      10      15
Leu  Ser Leu Pro Ala Gly Ala Asp Val Lys Ala Arg Ser Cys Gly Glu
      20      25      30
Val  Arg Gln Ala Tyr Gly Ala Lys Gly Phe Ser Leu Ala Asp Ile Pro
      35      40      45
Tyr  Gln Glu Ile Ala Gly Glu His Leu Arg Ile Cys Pro Gln Glu Tyr
   50      55      60
Thr  Cys Cys Thr Thr Glu Met Glu Asp Lys Leu Ser Gln Gln Ser Lys
   65      70      75      80
Leu  Glu Phe Glu Asn Leu Val Glu Glu Thr Ser His Phe Val Arg Thr
      85      90      95
Thr  Phe Val Ser Arg His Lys Lys Phe Asp Glu Phe Phe Arg Glu Leu
      100      105      110
Leu  Glu Asn Ala Glu Lys Ser Leu Asn Asp Met Phe Val Arg Thr Tyr
      115      120      125
Gly  Met Leu Tyr Met Gln Asn Ser Glu Val Phe Gln Asp Leu Phe Thr
   130      135      140
Glu  Leu Lys Arg Tyr Tyr Thr Gly Gly Asn Val Asn Leu Glu Glu Met
   145      150      155      160
Leu  Asn Asp Phe Trp Ala Arg Leu Leu Glu Arg Met Phe Gln Leu Ile
      165      170      175
Asn  Pro Gln Tyr Pro Phe Ser Glu Gly Phe Leu Gly Met Cys Glu Gln
      180      185      190
Ile  Pro *
      194

```

<210> 1699
 <211> 97
 <212> PRT
 <213> Homo sapiens

```

      <400> 1699
Met  Asp Ser Pro Trp Ala Gly Leu Leu Trp Leu Leu Pro Thr Leu Trp
   1      5      10      15
Ser  Ser Phe Pro Ala Pro Ala Cys Trp Pro Ser Ser Ser Ser Ser Ser
      20      25      30

```

```

Pro Val Cys Ala Ala Asn Gly Ala Met Ser Ala Ser Arg Asn Leu Arg
      35      40      45
Thr Leu Lys Gly Arg Thr Ala Pro Gly Ser Thr Leu Pro Leu Arg Arg
      50      55      60
Arg Pro Pro Pro His Ser Arg Cys Leu Met Ser Thr Phe Ser Arg Trp
      65      70      75      80
Leu Arg Ser Pro Cys Gln Cys Leu Pro Arg Ser Leu His Thr Gln Thr
      85      90      95      96
*
```

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<210> 1700
<211> 129
<212> PRT
<213> Homo sapiens
```

```

<400> 1700
Met Gly Trp Ala Pro Leu Leu Leu Thr Leu Leu Ala His Cys Thr Gly
  1      5      10      15
Ser Trp Ala Gln Ser Val Leu Thr Gln Pro Pro Ser Glu Ser Glu Ala
      20      25      30
Pro Gly Gln Trp Val Asn Ile Ser Cys Thr Gly Ser Gly Ser Asn Leu
      35      40      45
Gly Ala Gly Phe Asp Val Gln Trp Tyr Gln Leu Ile Pro Gly Thr Ala
      50      55      60
Pro Lys Leu Leu Ile Phe Asn Asn Asn Arg Gln Pro Ser Gly Val Pro
      65      70      75      80
Asp Arg Phe Ser Ala Ser Lys Ser Gly Thr Ser Ala Ser Leu Thr Ile
      85      90      95
Asn Asp Leu Gln Pro Glu Asp Glu Ser Glu Tyr Tyr Cys Leu Ala Met
      100      105      110
Thr Ala Ala Ser Leu Val Ser Ser Glu Leu Gly Pro Lys Ser Pro Ala
      115      120      125      128
*
```

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<210> 1701
<211> 219
<212> PRT
<213> Homo sapiens
```

```

<400> 1701
Met Arg Thr His Thr Arg Gly Ala Pro Ser Val Phe Phe Ile Tyr Leu
  1      5      10      15
Leu Cys Phe Val Ser Ala Tyr Ile Thr Asp Glu Asn Pro Glu Val Met
      20      25      30
Ile Pro Phe Thr Asn Ala Asn Tyr Asp Ser His Pro Met Leu Tyr Phe
      35      40      45
Ser Arg Ala Glu Val Ala Glu Leu Gln Leu Arg Ala Ala Ser Ser His
      50      55      60
Glu His Ile Ala Ala Arg Leu Thr Glu Ala Val His Thr Met Leu Ser
      65      70      75      80
Ser Pro Leu Glu Tyr Leu Pro Pro Trp Asp Pro Lys Asp Tyr Ser Ala
```

```

      85      90      95
Arg Trp Asn Glu Ile Phe Gly Asn Asn Leu Gly Ala Leu Ala Met Phe
      100      105      110
Cys Val Leu Tyr Pro Glu Asn Ile Glu Ala Arg Asp Met Ala Lys Asp
      115      120      125
Tyr Met Glu Arg Met Ala Ala Gln Pro Ser Trp Leu Val Lys Asp Ala
      130      135      140
Pro Trp Asp Glu Val Pro Leu Ala His Ser Leu Val Gly Phe Ala Thr
      145      150      155      160
Ala Tyr Asp Phe Leu Tyr Asn His Leu Ser Lys Thr Gln Gln Glu Lys
      165      170      175
Phe Leu Glu Val Ile Ala Asn Ala Ser Gly Tyr Met Phe Val Thr Leu
      180      185      190
Ile Leu Gly Ala Asp Gly Asp Ser Asn Thr Cys Thr Ile Ile Ser Pro
      195      200      205
Pro Thr Val Trp Leu Cys Ser Arg Glu Ala *
      210      215      218

```

<210> 1702
 <211> 86
 <212> PRT
 <213> Homo sapiens

```

      <400> 1702
Met Glu Gln Leu Leu Gly Ile Lys Leu Gly Cys Leu Phe Ala Leu Leu
      1      5      10      15
Ala Leu Thr Leu Gly Cys Gly Leu Thr Pro Ile Cys Phe Lys Trp Phe
      20      25      30
Gln Ile Asp Ala Ala Arg Gly His Arg Leu Val Leu Arg Leu Leu
      35      40      45
Gly Cys Ile Ser Ala Gly Val Phe Leu Gly Ala Gly Phe Met His Met
      50      55      60
Thr Ala Glu Ala Leu Glu Glu Ile Glu Ser Gln Ile Gln Lys Phe Met
      65      70      75      80
Val Gln Ile Ser Lys *
      85

```

<210> 1703
 <211> 229
 <212> PRT
 <213> Homo sapiens

```

      <400> 1703
Met Leu Ser Met Leu Arg Thr Met Thr Arg Leu Cys Phe Leu Leu Phe
      1      5      10      15
Phe Ser Val Ala Thr Ser Gly Cys Ser Ala Ala Ala Ser Ser Leu
      20      25      30
Glu Met Leu Ser Arg Glu Phe Glu Thr Cys Ala Phe Ser Phe Ser Ser
      35      40      45
Leu Pro Arg Ser Cys Lys Glu Ile Lys Glu Arg Cys His Ser Ala Gly
      50      55      60
Asp Gly Leu Tyr Phe Leu Arg Thr Lys Asn Gly Val Val Tyr Gln Thr
      65      70      75      80

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```
<210> 1704
<211> 202
<212> PRT
<213> Homo sapiens
```

<400> 1704															
Met	Val	Phe	Pro	Val	Met	Tyr	Asn	Leu	Ile	Ile	Leu	Val	Cys	Arg	Ala
1				5					10					15	
Cys	Phe	Pro	Asp	Leu	Gln	His	Gly	Tyr	Leu	Val	Ala	Trp	Leu	Val	Leu
			20					25					30		
Asp	Tyr	Thr	Ser	Asp	Leu	Leu	Tyr	Leu	Leu	Asp	Met	Val	Val	Arg	Phe
		35					40					45			
His	Thr	Gly	Phe	Leu	Glu	Gln	Gly	Ile	Leu	Val	Val	Asp	Lys	Gly	Arg
	50					55					60				
Ile	Ser	Ser	Arg	Tyr	Val	Arg	Thr	Trp	Ser	Phe	Phe	Leu	Asp	Leu	Ala
65				70						75				80	
Ser	Leu	Met	Pro	Thr	Asp	Val	Val	Tyr	Val	Arg	Leu	Gly	Pro	His	Thr
				85					90					95	
Pro	Thr	Leu	Arg	Leu	Asn	Arg	Phe	Leu	Arg	Ala	Pro	Arg	Leu	Phe	Glu
			100					105					110		
Ala	Phe	Asp	Arg	Thr	Glu	Thr	Arg	Thr	Ala	Tyr	Pro	Asn	Ala	Phe	Cys
		115					120				125				
Ile	Gly	Lys	Leu	Met	Leu	Tyr	Ile	Phe	Gly	Arg	Ile	His	Trp	Asn	Asn
	130					135					140				
Cys	Leu	Tyr	Phe	Ser	Leu	Ser	Arg	Tyr	Leu	Gly	Phe	Gly	Arg	Glu	Pro
145				150						155				160	
Met	Gly	Val	Pro	Arg	Thr	Pro	Ala	Pro	Thr	Trp	Val	Leu	Thr	Ala	Arg
			165						170					175	
Gly	Gly	Pro	Val	Thr	Ser	Tyr	Lys	Leu	Phe	Asn	Phe	Phe	His	Pro	Leu
		180						185					190		
Asp	Thr	Trp	Ile	Ile	Gln	Gly	Gly	Glu	*						
	195					200	201								

<210> 1705
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1705
 Met Gly Leu Leu Gly Val Leu Trp Asn Thr Thr Leu His Met Cys Arg
 1 5 10 15
 Met Arg Leu Gln Asp Thr Gly Gln Lys Ile Arg Thr Gly Ser Cys Glu
 20 25 30
 Leu His Gly Ser Gln Ser Ser His Ser Thr Gly Asn Leu Arg Val Leu
 35 40 45
 Pro Ser His Asn Gly Glu Thr Leu His *
 50 55 57

<210> 1706
 <211> 55
 <212> PRT
 <213> Homo sapiens

<400> 1706
 Met Gly Asp Tyr Arg Asn Val Arg Leu Leu Gly Ser Phe Ser Phe Ile
 1 5 10 15
 Ser Val Thr Ile Ser Arg Val Ile Phe Leu Leu Ser Leu Leu Gln Pro
 20 25 30
 Ser Gly Val Gly Ile Leu Phe Ala Asp Ser Gly Gly Thr Gly Tyr Thr
 35 40 45
 His His Cys Leu Trp Val *
 50 54

<210> 1707
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1707
 Met Leu Glu Cys Ala Phe Ile Val Leu Trp Leu Gln Leu Gly Trp Leu
 1 5 10 15
 Ser Gly Glu Asp Gln Val Thr Gln Ser Pro Glu Ala Leu Arg Leu Gln
 20 25 30
 Glu Gly Glu Ser Ser Ser Leu Asn Cys Ser Tyr Thr Val Ser Gly Leu
 35 40 45
 Arg Gly Leu Phe Trp Tyr Arg Gln Asp Pro Gly Lys Gly Pro Glu Phe
 50 55 60
 Leu Phe Thr Leu Tyr Ser Ala Gly Glu Glu Lys Glu Lys Glu Arg Leu
 65 70 75 80
 Lys Ala Thr Leu Thr Lys Lys Glu Ser Phe Leu His Ile Thr Ala Pro
 85 90 95
 Lys Pro Glu Asp Ser Ala Thr Tyr Leu Cys Ala Val Gln Ala Gln Phe
 100 105 110
 His Ser Gly Gly Gly Ala Asp Gly Leu Thr Phe Gly Lys Gly Thr Arg
 115 120 125

Leu Lys Val Leu Ala Leu Tyr Pro Glu Pro *
 130 135 138

<210> 1708
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1708
 Met Gly Pro Arg Phe Val Ser Thr Leu Pro Phe Ser Pro Ser Ala Ala
 1 5 10 15
 Trp Cys Ala Cys Glu Ala Gly Gly Gly Leu Arg Arg Glu Val Ala His
 20 25 30
 Ala Gln Arg Ala Ala Ser Thr Ala Pro Thr Ala His Met Gln Asn Ser
 35 40 45
 Thr Leu Ile Gly Leu Asn Leu Ser Arg Gly *
 50 55 58

<210> 1709
 <211> 81
 <212> PRT
 <213> Homo sapiens

<400> 1709
 Met Arg Leu Pro Trp Glu Leu Leu Val Leu Gln Ser Phe Ile Leu Cys
 1 5 10 15
 Leu Ala Asp Asp Ser Thr Leu His Gly Pro Ile Phe Ile Gln Glu Pro
 20 25 30
 Ser Pro Val Met Phe Pro Leu Asp Ser Glu Glu Lys Lys Ala Lys Leu
 35 40 45
 Asn Cys Glu Asp Lys Gly Asp Pro Lys Pro His Ile Arg Trp Lys Leu
 50 55 60
 Asn Gly Ala Asp Ala Asp Thr Gly Met Glu Phe Leu Leu Gln Arg Cys
 65 70 75 80
 *

<210> 1710
 <211> 399
 <212> PRT
 <213> Homo sapiens

<400> 1710
 Met Leu Arg Leu Tyr Val Leu Val Met Gly Val Ser Ala Phe Thr Leu
 1 5 10 15
 Gln Pro Ala Ala His Thr Gly Ala Ala Arg Ser Cys Arg Phe Arg Gly
 20 25 30
 Arg His Tyr Lys Arg Glu Phe Arg Leu Glu Gly Glu Pro Val Ala Leu
 35 40 45
 Arg Cys Pro Gln Val Pro Tyr Trp Leu Trp Ala Ser Val Ser Pro Arg


```

Ile Ser Cys Pro His Glu Cys Phe Glu Ala Ile Leu Ser Leu Asp Thr
 50          55          60
Gly Tyr Arg Ala Pro Val Thr Leu Val Arg Lys Gly Cys Trp Thr Gly
 65          70          75          80
Pro Pro Ala Gly Gln Thr Gln Ser Asn Ala Asp Ala Leu Pro Pro Asp
          85          90          95
Tyr Ser Val Val Arg Gly Cys Thr Thr Asp Lys Cys Asn Ala His Leu
          100          105          110
Met Thr His Asp Ala Leu Pro Asn Leu Ser Gln Ala Pro Asp Pro Pro
          115          120          125
Thr Leu Ser Gly Leu Glu Cys Tyr Ala Cys Ile Gly Val His Gln Asp
 130          135          140
Asp Cys Ala Ile Gly Arg Ser Arg Arg Val Gln Cys His Gln Asp Gln
 145          150          155          160
Thr Ala Cys Phe Gln Gly Asn Gly Arg Met Thr Val Gly Asn Phe Ser
          165          170          175
Val Pro Val Tyr Ile Arg Thr Cys His Arg Ala Leu Leu His His Leu
          180          185          190
Met Gly Thr Thr Ser Pro Trp Thr Ala Ile Gly Pro Pro Arg Gly Ser
          195          200          205
Cys Cys Glu Gly Tyr Leu Cys Asn Arg Lys Ser Met Thr Gln Pro Phe
 210          215          220
Thr Ser Ala Ser Ala Thr Thr Pro Pro Arg Ala Leu Gln Val Leu Ala
 225          230          235          240
Leu Leu Leu Pro Val Leu Leu Leu Val Gly Leu Ser Ala *
          245          250          253

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<210> 1712
<211> 124
<212> PRT
<213> Homo sapiens

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```

<400> 1712
Met Thr Trp Leu Leu Val Ala Tyr Ala Asp Phe Val Val Thr Phe Val
 1          5          10          15
Met Leu Leu Pro Ser Lys Asp Phe Trp Tyr Ser Val Val Asn Gly Val
          20          25          30
Ile Phe Asn Cys Leu Ala Val Leu Ala Leu Ser Ser His Leu Arg Thr
          35          40          45
Met Leu Thr Asp Pro Glu Lys Ser Ser Asp Cys Arg Pro Ser Ala Cys
 50          55          60
Thr Val Lys Thr Gly Leu Asp Pro Thr Leu Val Gly Ile Cys Gly Glu
 65          70          75          80
Gly Thr Glu Ser Val Gln Ser Leu Leu Leu Gly Ala Val Pro Lys Gly
          85          90          95
Asn Ala Thr Lys Glu Tyr Met Asp Glu Leu Ala Ala Glu Ala Arg Gly
          100          105          110
Ser His Leu Gln Val Pro Gln Val Leu Leu Tyr *
          115          120          123

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<210> 1713
<211> 214
<212> PRT
<213> Homo sapiens

```


<400> 1713

```

Met Leu His Leu Val Phe Ile Leu Pro Ser Leu Met Leu Leu Ile Pro
 1           5           10           15
His Ile Leu Leu Glu Asn Phe Ala Ala Ala Ile Pro Gly His Arg Cys
           20           25           30
Trp Val His Met Leu Asp Asn Asn Thr Gly Ser Gly Asn Glu Thr Gly
           35           40           45
Ile Leu Ser Glu Asp Ala Leu Leu Arg Ile Ser Ile Pro Leu Asp Ser
           50           55           60
Asn Leu Arg Pro Glu Lys Cys Arg Arg Phe Val His Pro Gln Trp Gln
 65           70           75           80
Leu Leu His Leu Asn Gly Thr Ile His Ser Thr Ser Glu Ala Asp Thr
           85           90           95
Glu Pro Cys Val Asp Gly Trp Val Tyr Asp Gln Ser Tyr Phe Pro Ser
           100          105          110
Thr Ile Val Thr Lys Trp Asp Leu Val Cys Asp Tyr Gln Ser Leu Lys
           115          120          125
Ser Val Val Gln Phe Leu Leu Leu Thr Gly Met Leu Val Gly Gly Ile
           130          135          140
Ile Gly Gly His Val Ser Asp Arg Trp Leu Val Glu Ser Ala Arg Trp
145           150           155           160
Leu Ile Ile Thr Asn Lys Leu Asp Glu Gly Leu Lys Ala Leu Arg Lys
           165          170          175
Val Ala Arg Thr Asn Gly Ile Lys Asn Ala Glu Arg Asn Pro Glu His
           180          185          190
Arg Gly Cys Lys Ile His His Ala Gly Gly Ala Gly Cys Ser Thr Asp
           195          200          205
Gln Asn Tyr Cys Val *
           210          213

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<210> 1714

<211> 178

<212> PRT

<213> Homo sapiens

<400> 1714

```

Met Ala Ala Ser Trp Ser Leu Leu Val Thr Leu Arg Pro Leu Ala Gln
 1           5           10           15
Ser Pro Leu Arg Gly Arg Cys Val Gly Cys Gly Ala Trp Ala Ala Ala
           20           25           30
Leu Ala Pro Leu Ala Thr Ala Pro Gly Lys Pro Phe Trp Lys Ala Tyr
           35           40           45
Thr Val Gln Thr Ser Glu Ser Met Thr Pro Thr Ala Thr Ser Glu Thr
           50           55           60
Tyr Leu Lys Ala Leu Ala Val Cys His Gly Pro Leu Asp His Tyr Asp
 65           70           75           80
Phe Leu Ile Lys Ala His Glu Leu Lys Asp Glu His Gln Arg Arg
           85           90           95
Val Ile Gln Cys Leu Gln Lys Leu His Glu Asp Leu Lys Gly Tyr Asn
           100          105          110
Ile Glu Ala Glu Gly Leu Phe Phe Lys Ala Phe Phe Lys Glu Gln Thr
           115          120          125
Ser Lys Gly Pro Val Cys Leu Trp Arg Cys Trp Tyr Arg Lys Asn Asn
           130          135          140

```

Gly Asp Gly His Val Leu Cys Leu Cys Gly Asn Glu Glu Glu Lys Thr
 145 150 155 160
 Gly Ser Phe Ser Trp Phe His Ala Arg Cys Ala Gln Lys Asn Thr Ser
 165 170 175
 Pro *
 177

<210> 1715
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1715
 Met Arg Val Thr Ala Pro Arg Thr Val Leu Leu Leu Trp Gly Ala
 1 5 10 15
 Val Ala Leu Thr Glu Thr Trp Ala Gly Ser His Ser Met Lys Tyr Phe
 20 25 30
 Tyr Thr Ala Met Ser Arg Ala Gly Arg Gly Glu Pro Arg Phe Ile Ala
 35 40 45
 Glu Gly Tyr Val Asp Asp Thr Gln Phe Val Arg Phe Asp Ser Asp Ala
 50 55 60
 Ala Ser Pro Lys Thr Asp Pro Gly Arg His Gly *
 65 70 75

<210> 1716
 <211> 83
 <212> PRT
 <213> Homo sapiens

<400> 1716
 Met Arg Phe Thr Phe Pro Leu Met Ala Ile Val Leu Glu Ile Ala Met
 1 5 10 15
 Ile Ala Ser Phe Gly Leu Phe Val Glu Tyr Glu Thr Asp His Thr Val
 20 25 30
 Leu Glu His Phe Asn Ile Thr Lys Pro Ser Asp Met Gly Ile Phe Phe
 35 40 45
 Glu Leu Tyr Pro Leu Phe Gln Asp Val His Gly Met Ile Phe Val Gly
 50 55 60
 Phe Asp Phe Pro Pro Asp Leu Pro Glu Glu Leu Trp Val Ser Gln Arg
 65 70 75 80
 Gly Tyr *
 82

<210> 1717
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1717
 Met Ala Leu Phe Phe Leu Ala Leu Asn Phe Trp Lys Val Gly Met Ala

```

      1           5           10           15
Cys Tyr Val Arg Thr Ser Ser Trp Asn Ser Leu Leu Phe Phe Ser Gln
      20           25           30
Pro Tyr Phe Leu Gly Ser Cys Phe Glu Gln Tyr Leu Ser Asn Val Cys
      35           40           45
Leu Pro Asp Val Val Pro Asp Ala *
      50           55 56

```

<210> 1718

<211> 76

<212> PRT

<213> Homo sapiens

<400> 1718

```

Met Tyr Leu Gly Leu Phe Leu Asp Phe Tyr Ser Val Ser Phe Cys Gly
      1           5           10           15
Cys Leu His Met Leu Gln Pro Gln Cys Phe Asn Tyr Phe Asn Ser Lys
      20           25           30
Asp Gln Ser Arg Phe His Cys Leu Lys His Cys Ser Asp His Leu Ile
      35           40           45
Phe Leu Leu Ser Glu Leu Arg Ser Asn Met Phe Ser Ser Phe Leu Ile
      50           55           60
Leu Ser Ile Phe Tyr Asp Tyr Cys Ile Asn Leu *
      65           70           75

```

<210> 1719

<211> 71

<212> PRT

<213> Homo sapiens

<400> 1719

```

Met Lys Ile Phe Phe His Ile Phe Phe His Lys Cys Leu Phe Thr Tyr
      1           5           10           15
Arg Leu Phe Ile Thr Leu Ala Leu Ile Leu Trp Tyr Ser Asp Ile Glu
      20           25           30
Glu Ser Thr Phe Pro Pro Leu Met Arg Tyr Cys Pro Asn Thr Val Leu
      35           40           45
His Lys Ser Phe Phe Gln Met Ser Ala Phe Ile Thr Tyr Gln Phe Ser
      50           55           60
Leu Tyr Leu Ser Leu Phe *
      65           70

```

<210> 1720

<211> 101

<212> PRT

<213> Homo sapiens

<400> 1720

```

Met Leu Ala Gly Gln Leu Leu Pro Met Leu Thr Leu Leu Pro Pro Ser
      1           5           10           15

```

```

Phe Pro Leu Pro His Pro Thr Leu Gly Pro Arg Arg His Ala Ser Leu
      20      25      30
Thr Gln Leu Gly Pro Ala Phe Trp Met Ala Trp Gly Arg Pro Trp Ala
      35      40      45
His Leu Gly Pro Gly Gln Pro Leu Gly Gln Leu Trp Lys Ser Ser Val
      50      55      60
Glu Glu His Leu Leu Ala Ala Trp Leu Gln Pro Leu Ala Leu Leu Glu
      65      70      75      80
Trp Ser Leu Gly Ala Ser Ala Leu Ser Ala Leu Gly Thr Ser His Pro
      85      90      95
Leu Gly Leu Gln *
      100

```

```

<210> 1721
<211> 48
<212> PRT
<213> Homo sapiens

```

```

<400> 1721
Met Leu Val Leu Leu Val Trp Val His His Thr Leu Leu Leu Gly Gln
  1      5      10      15
Lys Ser Thr Tyr Glu Glu Lys Arg Asn Gly Lys Trp Gly Arg Gln Arg
      20      25      30
Arg Ala Pro Tyr Leu Gly Val Tyr Ile Glu Ala Thr Gly Gln Val *
      35      40      45      47

```

```

<210> 1722
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1722
Met Asp Val Gly Pro Asn Ser Leu Pro His Leu Gly Leu Lys Leu Leu
  1      5      10      15
Leu Leu Leu Leu Leu Val Thr Leu Arg Gly Gln Ala Asn Thr Gly Trp
      20      25      30
Tyr Gly Ile Pro Gly Met Pro Gly Leu Pro Gly Ala Pro Gly Lys Asp
      35      40      45
Gly Tyr Asp Gly Leu Pro Gly Pro Lys Gly Glu Pro Gly Ile Asp Ala
      50      55      60
Ile Ser Leu Ile Leu *
      65      69

```

```

<210> 1723
<211> 54
<212> PRT
<213> Homo sapiens

```

```

<400> 1723
Met Asp Leu Ile Phe Val Lys Val Leu Leu Ile Phe Ala Ala Ile Gln

```

```

      1           5           10           15
Thr Leu Ser Lys Trp Gln Phe Ala Phe Thr Phe Ser Ile Gln Thr Val
      20           25           30
Pro Ser Leu Val Ile Asn Leu Ser Trp Leu Leu Leu Asp Leu Lys Pro
      35           40           45
Gly Thr His Ile Gln *
      50           53

```

<210> 1724
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1724
Met Val Ser Gly Trp Ile Thr Lys Thr Gln Phe Leu Leu Leu Gly Arg
      1           5           10           15
Gly Lys Ile Cys Met Tyr Lys Cys Ile Lys Gln Leu Gln Val Arg Lys
      20           25           30
Thr Asp Val Ile Thr Thr Lys Gln Ile Asn Tyr Glu Glu Ile Asn Cys
      35           40           45
Leu Asn His Ile Met Leu Thr Thr Lys Phe Trp *
      50           55           59

```

<210> 1725
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

      <400> 1725
Met Phe Phe Arg Met Gln Val Cys Glu His His Gly Phe Trp Val Ile
      1           5           10           15
Leu Leu Leu Leu Ser Leu Lys Met Glu Ile Pro Leu Ala Ala Tyr Pro
      20           25           30
Thr Ala Glu Tyr Ser Ser Ile Gly Ser Gly Phe Thr Pro Leu His Pro
      35           40           45
Ser Arg Thr Phe Thr Gln Ala Ser Pro Leu Pro Ser Ile Phe *
      50           55           60           62

```

<210> 1726
 <211> 57
 <212> PRT
 <213> Homo sapiens

```

      <400> 1726
Met Cys Leu Phe Cys Ser Phe Val Asn Val Thr Leu Gly Ser Thr Asp
      1           5           10           15
Pro Met Cys Cys Pro Ala Gln Trp Leu Ala Gln Arg Met Pro Trp Ala
      20           25           30
Phe Val Ser Ile Arg Lys Ala Trp Pro Leu Gly Arg Met Ser Gly Ala
      35           40           45

```

Ser Gln Arg Leu Lys Glu Glu Glu *

50 55 56

<210> 1727
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1727

Met	Arg	Trp	Pro	Trp	Ala	Ser	Trp	Ala	Ala	Val	Leu	Leu	Lys	Leu	Pro
1				5				10						15	
Arg	Arg	Val	Leu	Pro	Trp	Leu	Pro	Cys	Gly	His	Gln	Gln	His	Val	Arg
		20						25					30		
Ala	Thr	Ala	Ser	Ser	Arg	Ser	Pro	Pro	Met	Pro	Val	Thr	Lys		
		35					40					45	46		

<210> 1728
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1728

Met	Lys	Met	Glu	Met	Glu	Thr	Lys	Arg	Ser	Trp	Arg	Pro	Gln	Ser	His
1				5					10					15	
Gly	His	Phe	Thr	Phe	Gln	Phe	Leu	Leu	Ser	Trp	Thr	Phe	Glu	Leu	Ile
		20						25					30		
Leu	Phe	His	Phe	Val	Pro	Phe	Phe	Pro	Tyr	Leu	Leu	Phe	*		
		35					40					45			

<210> 1729
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1729

Met	Val	Leu	Leu	Pro	Leu	Gln	Cys	Gly	Leu	Thr	Lys	Ala	Ser	Ser	Cys
1				5					10					15	
Leu	His	Thr	Leu	Cys	Ser	Ser	Ser	Asp	Gln	Ile	Gly	Tyr	Leu	Pro	Val
		20						25					30		
Lys	Asn	Thr	Asp	Gln	Leu	Gly	Leu	Gln	Met	Glu	Val	Ala	Glu	Met	Cys
		35					40					45			48

*

<210> 1730
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1730

```

Met Phe Thr Phe Gly Arg Leu Phe Gln Ile Ile Thr Val Val Thr Cys
 1           5           10           15
Leu Gln Phe Ile Gln Asp Cys Cys Ile His Ser Arg Gln Ile Asn Ser
           20           25           30
Leu Leu Glu Thr Ser Ser Leu Ser Arg Cys Leu Glu Val Pro Asp Val
           35           40           45
Cys *
49

```

<210> 1731

<211> 227

<212> PRT

<213> Homo sapiens

<400> 1731

```

Met Gly Cys Asp Gly Arg Val Ser Gly Leu Leu Arg Arg Asn Leu Gln
 1           5           10           15
Pro Thr Leu Thr Tyr Trp Ser Val Phe Phe Ser Phe Gly Leu Cys Ile
           20           25           30
Ala Phe Leu Gly Pro Thr Leu Leu Asp Leu Arg Cys Gln Thr His Ser
           35           40           45
Ser Leu Pro Gln Ile Ser Trp Val Phe Phe Ser Gln Gln Leu Cys Leu
           50           55           60
Leu Leu Gly Ser Ala Leu Gly Gly Val Phe Lys Arg Thr Leu Ala Gln
           65           70           75           80
Ser Leu Trp Ala Leu Phe Thr Ser Ser Leu Ala Ile Ser Leu Val Phe
           85           90           95
Ala Val Ile Pro Phe Cys Arg Asp Val Lys Val Leu Ala Ser Val Met
           100          105          110
Ala Leu Ala Gly Leu Ala Met Gly Cys Ile Asp Thr Val Ala Asn Met
           115          120          125
Gln Leu Val Arg Met Tyr Gln Lys Asp Ser Ala Val Phe Leu Gln Val
           130          135          140
Leu His Phe Phe Val Gly Phe Gly Ala Leu Leu Ser Pro Leu Ile Ala
          145          150          155          160
Asp Pro Phe Leu Ser Glu Ala Asn Cys Leu Pro Ala Asn Ser Thr Gly
           165          170          175
Gln His His Leu Pro Arg Ala Thr Cys Ser Met Ser Pro Gly Cys Trp
           180          185          190
Gly Gln His His Val Asp Ala Gln Ala Leu Val Gln Pro Asp Val Pro
           195          200          205
Lys Ala Asp Ser Gln Gly Pro Gly Arg Glu Pro Glu Gly Pro Met Pro
           210          215          220
Ser Gly *
225 226

```

<210> 1732

<211> 102

<212> PRT

<213> Homo sapiens

<400> 1732

```

Met Val Ser Lys Phe Leu Leu Ser His Leu Val Leu Ala Val Pro Leu
 1          5          10          15
Arg Val Leu Leu Val Leu Trp Ala Leu Cys Val Gly Leu Ser Arg Val
          20          25          30
Met Ile Gly Arg His His Val Thr Asp Val Leu Ser Gly Phe Val Ile
          35          40          45
Gly Tyr Leu Gln Phe Arg Met Met Glu Lys Val Ser Met Gln Tyr Lys
          50          55          60
Thr Cys Arg Met Leu Ile Phe Val Trp Arg Arg Ala Arg Arg Pro Thr
          65          70          75          80
His Thr Phe Glu Gly Arg Leu Val Ser Lys Lys Gly Gln Asp Leu Ala
          85          90          95
Arg Trp Leu Ser Leu *
          100 101

```

<210> 1733

<211> 139

<212> PRT

<213> Homo sapiens

<400> 1733

```

Met Lys Phe Thr Thr Leu Leu Phe Leu Ala Ala Val Ala Gly Ala Leu
 1          5          10          15
Val Tyr Ala Glu Asp Ala Ser Ser Asp Ser Thr Gly Ala Asp Pro Ala
          20          25          30
Gln Glu Ala Gly Thr Ser Lys Pro Asn Glu Glu Ile Ser Gly Pro Ala
          35          40          45
Glu Pro Ala Ser Pro Pro Glu Thr Thr Thr Thr Ala Gln Glu Thr Ser
          50          55          60
Ala Ala Ala Val Gln Gly Thr Ala Lys Val Thr Ser Ser Arg Gln Glu
          65          70          75          80
Leu Asn Pro Leu Lys Ser Ile Val Glu Lys Ser Ile Leu Leu Thr Glu
          85          90          95
Gln Ala Leu Ala Lys Ala Gly Lys Gly Met His Gly Gly Val Pro Gly
          100          105          110
Gly Lys Gln Phe Ile Glu Asn Gly Ser Glu Phe Ala Gln Lys Leu Leu
          115          120          125
Lys Lys Phe Ser Leu Leu Lys Pro Trp Ala *
          130          135          138

```

<210> 1734

<211> 60

<212> PRT

<213> Homo sapiens

<400> 1734

```

Met Val Arg Ala Ser Phe Leu Cys Cys Val His Arg Thr Leu Gly Pro
 1          5          10          15
Trp Asp Leu Ser His Met Glu Leu Gly Gln Leu Leu Gln Asn Ala Pro
          20          25          30
Ser Ala His Arg Gly Cys Leu Gly Val Trp Lys Glu Val Val Pro Lys

```


<210> 1738
 <211> 107
 <212> PRT
 <213> Homo sapiens

<400> 1738
 Met Val Thr Gln Leu Thr Leu Glu Val Leu His Leu Ser Leu Val Val
 1 5 10 15
 Gly Gln Val Ser Asn Asn Leu Leu Leu His Ile Gly Pro Leu Ala Ser
 20 25 30
 Glu Gln Met Phe Tyr Ala Val Ala Thr Lys Ile Arg Asp Glu Asn Thr
 35 40 45
 Tyr Lys Ile Cys Thr Trp Leu Glu Ile Lys Val His His Val Leu Leu
 50 55 60
 His Ile Gln Gly Thr Leu Thr Cys Ser Tyr Leu Ser His Ser Glu Gln
 65 70 75 80
 Leu Val Phe Gln Ser Tyr Glu Tyr Val Asp Cys Arg Gly Asn Ala Ser
 85 90 95
 Val Pro His Gln Leu Thr Pro His Pro Pro *
 100 105 106

<210> 1739
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1739
 Met Val Leu Pro Pro His Lys Thr Val Gln Leu Pro Arg Leu His Leu
 1 5 10 15
 Val Trp Leu Trp Val Ser Gln Ala Trp Val Gly Gly Thr Val Leu His
 20 25 30
 Trp Leu Ala Ser Gln Gln Leu Cys Val Leu Val Pro Ala Ser Leu Thr
 35 40 45
 Met Ser Trp Asp Leu Glu Ala Arg Leu Gly Tyr Ile Leu Ala Trp Met
 50 55 60
 Ser Leu Gly Pro Cys Tyr Cys Cys Leu Phe Thr Ile Pro Thr Leu Leu
 65 70 75 80
 Glu Ile Ser Leu Ile Val Ser Leu Ala *
 85 89

<210> 1740
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1740
 Met His Cys Val Leu Glu Ile Leu Val Ser Val Leu Gly Leu Thr His
 1 5 10 15
 His Leu Leu Leu Arg Asp Arg Asp His Tyr Arg Leu Val Arg Leu Met

```

      20      25      30
Gly Asp Val Gly Gly Glu Gly Glu Leu Lys Ala Met Trp Arg Val Cys
      35      40      45
Leu Ser Val Cys Arg Val Asp Lys *
      50      55 56

```

<210> 1741
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

      <400> 1741
Met Ile Leu Asn Lys Ala Leu Met Leu Gly Ala Leu Ala Leu Thr Thr
 1      5      10      15
Val Met Ser Pro Cys Gly Gly Glu Gly Ile Val Gly Glu Cys Met Ser
      20      25      30
Glu Gly Cys Ser Leu Glu Leu Lys Asn Ser Lys Leu Lys Glu Lys Arg
      35      40      45      48
*
```

<210> 1742
 <211> 87
 <212> PRT
 <213> Homo sapiens

```

      <400> 1742
Met Ser Phe Val Lys Ile Leu Ile Trp Glu Leu Phe Ile Ala Cys Phe
 1      5      10      15
Pro Gln Gly Pro Leu Val His Ser Gly Lys Met Leu Lys His Gly Leu
      20      25      30
Asp Trp His Arg Thr Leu Leu Gln Lys His Pro Cys Ile Leu Phe Phe
      35      40      45
Ser Phe Leu Lys Trp Asn Leu Ala Leu Ser Pro Trp Met Glu Gly Ser
      50      55      60
Gly Ala Ile Ser Ala His Cys Asn Leu Cys Leu Leu Gly Ser Arg Asp
      65      70      75      80
Ala Pro Ala Ser Val Ser *
      85 86

```

<210> 1743
 <211> 49
 <212> PRT
 <213> Homo sapiens

```

      <400> 1743
Met Gly Phe Leu Ser Leu Thr Leu Tyr Leu Leu Thr Ser Leu Asn Lys
 1      5      10      15
Met Leu Phe Lys Leu Arg Gly Ala Gln Pro Thr Glu Glu Asp Ile Gly
      20      25      30

```

Gly Trp Leu Asn Glu Leu Lys Thr Ser Leu Lys Tyr Ile Arg Leu Arg
 35 40 45 48
 *

<210> 1744
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1744
 Met Gly Val Ser Glu Leu Leu Leu Leu Lys Met Ile Ala Ser Val
 1 5 10 15
 Ile Phe Leu Tyr Ser Phe Ile Ser Met Phe Lys Thr Gln Leu Leu Cys
 20 25 30
 Ser Ser Ser Thr Ser His Gly Ile Leu Glu Ser Arg Ile Lys Cys His
 35 40 45
 Ala Asp Phe Tyr Leu Phe Cys Gln *
 50 55 56

<210> 1745
 <211> 96
 <212> PRT
 <213> Homo sapiens

<400> 1745
 Met Asn Gln Leu Ser Phe Leu Leu Phe Leu Ile Ala Thr Thr Arg Gly
 1 5 10 15
 Trp Ser Thr Asp Glu Ala Asn Thr Tyr Phe Leu Glu Cys Thr Cys Ser
 20 25 30
 Trp Ser Pro Ser Leu Pro Lys Ser Cys Pro Glu Ile Lys Asp Gln Cys
 35 40 45
 Pro Ser Ala Phe Asp Gly Leu Tyr Phe Ile Arg Thr Glu Asn Ala Val
 50 55 60
 Ile His His Thr Phe Cys Val Met Thr Ser Ala Gly Cys Phe Trp Ile
 65 70 75 80
 Leu Lys Val Thr Val His Asn Tyr Asp Leu Thr Thr Asp Thr Pro *
 85 90 95

<210> 1746
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1746
 Met Val Ile Ser Ala Ala Val Leu Ser Ser Ile Leu Cys Val Phe Leu
 1 5 10 15
 Ser Lys Leu Val Leu Met Asn Asp Glu Cys Leu Arg Leu Thr Phe Trp
 20 25 30
 Leu His Cys Asn Ala Lys His Tyr Arg Tyr Ser Met Leu Gly Phe Pro

<210> 1749
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1749
 Met Leu Val Lys Val Val Tyr Val Met Gly Ala Ile Leu Lys Ile Phe
 1 5 10 15
 Leu Arg Glu Gly Asn Val Ile Asn Gln Arg Ser Gly Met Asp Ile Glu
 20 25 30
 Lys Tyr Ser Glu His Tyr Leu Ala Gln Gly Val Arg Trp *
 35 40 45

<210> 1750
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1750
 Met Glu Leu Val Arg Arg Leu Met Pro Leu Thr Leu Leu Ile Leu Ser
 1 5 10 15
 Cys Leu Ala Glu Leu Thr Met Ala Glu Ala Glu Gly Asn Ala Ser Cys
 20 25 30
 Thr Val Ser Leu Gly Gly Ala Asn Met Ala Glu Thr His Lys Ala Met
 35 40 45
 Ile Leu Gln Leu Asn Pro Ser Glu Asn Cys Thr Trp Thr Ile Glu Arg
 50 55 60
 Pro Glu Asn Lys Ser Ile Arg Ile Ile Phe Cys Tyr Val Gln Leu Gly
 65 70 75 80
 Ser Glu
 82

<210> 1751
 <211> 94
 <212> PRT
 <213> Homo sapiens

<400> 1751
 Met Gly Ser Val Phe Trp His Val Leu Phe Cys Ile Ser Gly Val Cys
 1 5 10 15
 Leu Trp Cys Ala His Arg Met Ala Ala Phe Leu Gln Gln Met Ala Val
 20 25 30
 Leu Leu Pro Val Asp Cys Glu Arg Pro Ala Ala Val His Trp Leu Ala
 35 40 45
 Leu Cys Gly Cys Cys Tyr Gly Gln Leu Val Trp Glu Ser Arg Thr Arg
 50 55 60
 Ser Cys Phe Trp Ser Leu Glu Cys Leu Cys Phe Gly Gly Gln His Phe
 65 70 75 80
 Gly Ser Val Pro Ser Phe Phe Cys Ser Ser Val Trp Leu *
 85 90 93

<210> 1752
 <211> 143
 <212> PRT
 <213> Homo sapiens

<400> 1752
 Met Asp Thr Trp Leu Val Cys Trp Ala Ile Phe Ser Leu Leu Lys Ala
 1 5 10 15
 Gly Leu Thr Glu Pro Glu Val Thr Gln Thr Pro Ser His Gln Val Thr
 20 25 30
 Gln Met Gly Gln Glu Val Ile Leu Arg Cys Val Pro Ile Ser Asn His
 35 40 45
 Leu Tyr Phe Tyr Trp Tyr Arg Gln Ile Leu Gly Gln Lys Val Glu Phe
 50 55 60
 Leu Val Ser Phe Tyr Asn Asn Glu Ile Ser Glu Lys Ser Glu Ile Phe
 65 70 75 80
 Asp Asp Gln Phe Ser Val Glu Arg Pro Asp Gly Ser Asn Phe Thr Leu
 85 90 95
 Lys Ile Arg Ser Thr Lys Leu Glu Asp Ser Ala Met Tyr Phe Cys Ala
 100 105 110
 Ser Ser Glu Arg Gly Ser Gly Ala Asn Val Leu Thr Phe Gly Ala Gly
 115 120 125
 Ser Arg Leu Thr Val Leu Glu Asp Leu Lys Asn Val Phe Pro Pro
 130 135 140 143

<210> 1753
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1753
 Met Val Cys Arg Leu Pro Cys Thr Leu Leu Pro Trp Pro Leu Lys His
 1 5 10 15
 Lys Gln Gly Ala Leu Leu Tyr Ile Cys Pro Ala Ser Leu Pro Ala Phe
 20 25 30
 Asn Pro Arg Asn Leu Ser Val Tyr Leu Leu Phe Ser Ala Ser Glu Ser
 35 40 45
 Leu Pro Leu Lys Ser Glu Gln Ala Arg Pro Gly Gly Ser Arg Leu *
 50 55 60 63

<210> 1754
 <211> 124
 <212> PRT
 <213> Homo sapiens

<400> 1754
 Met Val Leu Gln Thr His Ala Phe Ile Ser Leu Leu Leu Trp Ile Ser
 1 5 10 15
 Gly Ala Cys Gly Asp Ile Val Met Thr His Ser Pro Asp Ser Leu Ala
 20 25 30

```

Val Ser Leu Gly Glu Thr Ala Thr Ile Asp Cys Arg Ser Ser Gln Ser
      35              40              45
Val Leu Tyr His Ala Asn Asn Lys Asn Tyr Leu Thr Trp Tyr Gln Gln
      50              55              60
Arg Pro Arg Gln Ser Pro Lys Val Leu Ile Phe Trp Ala Ser Thr Arg
      65              70              75              80
Glu Thr Gly Val Pro Asp Arg Phe Thr Gly Ser Gly Ser Gly Thr Asp
      85              90              95
Tyr Ser Leu Thr Ile Ser Ser Leu Gln Ala Glu Asp Val Ala Thr Tyr
      100             105             110
Tyr Cys Gln Gln Tyr Tyr Asp Ser Pro Ile Thr Phe
      115             120             124

```

```

<210> 1755
<211> 111
<212> PRT
<213> Homo sapiens

```

```

<400> 1755
Met Gln Ala Thr Ser Asn Leu Leu Asn Leu Leu Leu Ser Leu Phe
  1              5              10              15
Ala Gly Leu Asn Pro Ser Lys Thr His Ile Asn Pro Lys Glu Gly Trp
      20              25              30
Gln Val Tyr Ser Ser Ala Gln Asp Pro Asp Gly Arg Gly Ile Cys Thr
      35              40              45
Val Val Ala Pro Glu Gln Asn Leu Cys Ser Arg Asp Ala Lys Ser Arg
      50              55              60
Gln Leu Arg Gln Leu Leu Glu Lys Val Gln Asn Met Ser Gln Ser Ile
      65              70              75              80
Glu Val Leu Asn Leu Arg Thr Gln Arg Asp Phe Gln Tyr Val Leu Lys
      85              90              95
Met Glu Thr Gln Met Lys Gly Leu Lys Ala Lys Phe Arg Gln Ile
      100             105             110 111

```

```

<210> 1756
<211> 74
<212> PRT
<213> Homo sapiens

```

```

<400> 1756
Met Leu Pro Arg Leu Val Leu Ser Ser Trp Pro Gln Ser Ile Phe Leu
  1              5              10              15
Pro Arg Phe Trp Asn Tyr Arg Cys Glu Pro Pro Cys Leu Ala Cys Phe
      20              25              30
Asp Ile Phe Tyr Ser Val Leu Ile Thr Asn Ser Leu His Met Pro Glu
      35              40              45
Tyr Lys Ser Lys Cys Tyr Leu Leu Phe Arg Trp Glu Leu Gln Lys Leu
      50              55              60
His Gln Lys Tyr Ala Leu Arg Tyr Ile *
      65              70              73

```


<210> 1757
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1757
 Met Glu Asn Val Asn Leu Lys Ala Ser Tyr Leu Gln Phe Ser Lys Leu
 1 5 10 15
 Met Ala Gly Lys Gly Trp Ala Leu Phe Ile Ala Leu Thr Phe Ser Gln
 20 25 30
 Arg Leu Leu Pro Cys Leu Ala Ile Ile Glu Ile Ile Asn Val Gly Val
 35 40 45
 Glu *
 49

<210> 1758
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1758
 Met Ala Trp Ile Pro Leu Phe Leu Gly Val Leu Ala Tyr Cys Thr Glu
 1 5 10 15
 Ser Val Ala Ser Tyr Glu Leu Phe Gln Pro Pro Ser Val Ser Val Ser
 20 25 30
 Pro Gly Gln Thr Ala Thr Phe Thr Cys Ser Gly Asp Asp Leu Gly Asn
 35 40 45
 Lys Tyr Ile Cys Trp Tyr Leu Gln Lys Pro Gly Gln Pro Pro Val Val
 50 55 60
 Leu Met Tyr Gln Asp Asn Lys Arg Pro Ser Gly Ile Pro Glu Arg Phe
 65 70 75 80
 Ser Gly Ser Asn Ser Gly Ser Thr Ala Thr Leu Thr Ile Ser Gly Thr
 85 90 95
 Gln Ala Thr Asp Glu Ala Leu Tyr Phe Cys Gln Ala Trp Asp Thr Asn
 100 105 110
 Gly Ala Val Phe Gly Gly Gly Thr Gln Leu Thr
 115 120 123

<210> 1759
 <211> 75
 <212> PRT
 <213> Homo sapiens

<400> 1759
 Met Arg Trp Arg Thr Ile Leu Leu Gln Tyr Cys Phe Leu Leu Ile Thr
 1 5 10 15
 Cys Leu Leu Thr Ala Leu Glu Ala Val Pro Ile Asp Ile Asp Lys Thr
 20 25 30
 Lys Val Gln Asn Ile His Pro Val Glu Ser Ala Lys Ile Glu Pro Pro
 35 40 45
 Asp Thr Gly Leu Tyr Tyr Asp Glu Ile Val Leu Glu Glu Leu Gly Gly
 50 55 60

Pro Cys Leu Tyr Leu Glu Gly Asn Pro Thr *
 65 70 74

<210> 1760
 <211> 122
 <212> PRT
 <213> Homo sapiens

<400> 1760
 Met Arg Leu Pro Asp Val Gln Leu Trp Leu Val Leu Leu Trp Ala Leu
 1 5 10 15
 Val Arg Ala Gln Gly Thr Gly Ser Val Cys Pro Ser Cys Gly Gly Ser
 20 25 30
 Lys Leu Ala Pro Gln Ala Glu Arg Ala Leu Val Leu Glu Leu Ala Lys
 35 40 45
 Gln Gln Ile Leu Asp Gly Leu His Leu Thr Ser Arg Pro Arg Ile Thr
 50 55 60
 His Pro Pro Pro Gln Ala Ala Leu Thr Arg Ala Leu Arg Arg Leu Gln
 65 70 75 80
 Pro Gly Ser Val Ala Pro Gly Asn Gly Glu Glu Val Ile Ser Phe Ala
 85 90 95
 Thr Val Thr Asp Ser Thr Ser Ala Tyr Ser Ser Leu Leu Thr Phe His
 100 105 110
 Leu Ser Thr Pro Arg Ser His His Leu Tyr
 115 120 122

<210> 1761
 <211> 123
 <212> PRT
 <213> Homo sapiens

<400> 1761
 Met Arg Val Arg Ile Gly Leu Thr Leu Leu Leu Cys Ala Val Leu Leu
 1 5 10 15
 Ser Leu Ala Ser Ala Ser Ser Asp Glu Glu Gly Ser Gln Asp Glu Ser
 20 25 30
 Leu Asp Ser Lys Thr Thr Leu Thr Ser Asp Glu Ser Val Lys Asp His
 35 40 45
 Thr Thr Ala Gly Arg Val Val Ala Gly Gln Ile Phe Leu Asp Ser Glu
 50 55 60
 Glu Ser Glu Leu Glu Ser Ser Ile Gln Glu Glu Glu Asp Ser Leu Lys
 65 70 75 80
 Ser Gln Glu Gly Glu Ser Val Thr Glu Asp Ile Ser Phe Leu Glu Ser
 85 90 95
 Pro Asn Pro Glu Asn Lys Asp Tyr Glu Glu Pro Lys Lys Val Arg Lys
 100 105 110
 Pro Gly Ser Leu Asp Ile Phe Leu Ala Phe *
 115 120 122

<210> 1762
 <211> 145

<212> PRT
 <213> Homo sapiens
 <221> misc_feature
 <222> (1)...(145)
 <223> Xaa = any amino acid or nothing

<400> 1762
 Met Ala Leu Ala Ala Leu Met Ile Ala Leu Gly Ser Leu Gly Leu His
 1 5 10 15
 Thr Trp Gln Ala Gln Ala Val Pro Thr Ile Leu Pro Leu Gly Leu Ala
 20 25 30
 Pro Asp Thr Phe Asp Asp Thr Tyr Val Gly Cys Ala Glu Glu Met Glu
 35 40 45
 Glu Lys Ala Ala Pro Leu Leu Lys Glu Glu Met Ala His His Ala Leu
 50 55 60
 Leu Arg Glu Ser Trp Glu Ala Ala Gln Glu Thr Trp Glu Asp Lys Arg
 65 70 75 80
 Arg Gly Leu Thr Leu Pro Pro Gly Phe Lys Ala Gln Asn Gly Ile Ala
 85 90 95
 Ile Met Val Tyr Thr Asn Ser Ser Asn Thr Leu Tyr Trp Glu Leu Asn
 100 105 110
 Xaa Ala Val Arg Thr Gly Gly Gly Ser Arg Glu Leu Tyr Met Arg His
 115 120 125
 Phe Pro Phe Lys Ala Leu His Phe Tyr Leu Ile Arg Ala Leu Gln Leu
 130 135 140
 Leu
 145

<210> 1763
 <211> 257
 <212> PRT
 <213> Homo sapiens

<400> 1763
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15
 Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30
 Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45
 Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Gly Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160

```

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
                165                170                175
Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
                180                185                190
Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
                195                200                205
Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Asn
                210                215                220
Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Glu Tyr Arg Lys Ser Ser
225                230                235                240
Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
                245                250                255 256

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<210> 1764
<211> 166
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(166)
<223> Xaa = any amino acid or nothing

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```

<400> 1764
Met Ala Leu Lys Val Leu Leu Glu Gln Glu Lys Thr Phe Phe Thr Leu
 1          5          10          15
Leu Val Leu Leu Gly Tyr Leu Ser Cys Lys Val Thr Cys Glu Ser Gly
 20          25          30
Asp Cys Arg Gln Gln Glu Phe Arg Asp Arg Ser Gly Asn Cys Val Pro
 35          40          45
Cys Asn Gln Cys Gly Pro Gly Met Glu Leu Ser Lys Glu Cys Gly Phe
 50          55          60
Gly Tyr Gly Glu Asp Ala Gln Cys Val Thr Cys Arg Leu His Arg Phe
 65          70          75          80
Lys Glu Asp Trp Gly Phe Gln Lys Cys Lys Pro Cys Leu Asp Cys Ala
 85          90          95
Val Val Asn Arg Phe Gln Lys Ala Asn Cys Ser Ala Thr Ser Asp Ala
100          105          110
Ile Cys Gly Asp Cys Leu Pro Gly Phe Tyr Arg Lys Thr Lys Leu Val
115          120          125
Gly Phe Gln Asp Met Glu Trp Trp Xaa Ala Leu Val Gly Arg Thr Pro
130          135          140
Phe Leu Pro Ser Leu Tyr Gly Asn Pro Ala Leu Gly Cys Gln Pro Arg
145          150          155          160
Val Gln Thr Phe Gly Glu
                165 166

```

```

<210> 1765
<211> 90
<212> PRT
<213> Homo sapiens

```

<400> 1765

```

Met Ser Cys Ser Cys Pro Pro Cys Phe Phe Thr Leu Phe Leu His Ser
 1          5          10          15
Ile Cys Gln Asp Ile Ser Trp Phe His Pro Gln Thr Pro Thr Leu Asp
          20          25          30
Ser Leu Leu Asn Trp Ile Asp Asp Leu Ile Phe Tyr Gly Thr Leu Tyr
          35          40          45
Asn Phe Phe Pro Glu Glu Thr Pro Leu Phe Thr Phe Leu Leu Thr Leu
          50          55          60
Tyr Leu Ser Leu Leu Leu Trp Leu Pro Gly Met Ala Ala Leu Pro
          65          70          75          80
Leu Ala Val Met Pro Asn Tyr Leu Tyr Lys
          85          90

```

<210> 1766

<211> 57

<212> PRT

<213> Homo sapiens

<400> 1766

```

Met Pro Ala Leu Arg Pro Ala Leu Leu Trp Ala Leu Leu Ser Leu Trp
 1          5          10          15
Leu Cys Cys Ala Thr Pro Ala Pro Ala Leu Gln Cys Pro Glu Gly Tyr
          20          25          30
Glu Pro Ser Pro Leu Asp Arg Lys Cys Ala Pro Tyr Pro Asn Val Arg
          35          40          45
Arg Ser Cys Pro Cys Pro Glu Gly Phe
          50          55          57

```

<210> 1767

<211> 63

<212> PRT

<213> Homo sapiens

<400> 1767

```

Met Val Phe Leu Tyr Gly Phe Val Phe Ile Lys Lys Ala Gln Leu Ile
 1          5          10          15
Val Val Leu Leu Phe Thr Asp Val Ala Gln Arg Thr Ala Ala Gly Arg
          20          25          30
Pro Pro Thr Pro Val Leu Gly Pro Pro Ser Pro Glu Cys Cys Leu Leu
          35          40          45
Phe Met Glu Gly Glu Gln Trp Ile Leu Gly Thr Thr Gly Gln Ala
          50          55          60          63

```

<210> 1768

<211> 174

<212> PRT

<213> Homo sapiens

<400> 1768

```

Met Pro Ser Gly Cys Arg Cys Leu His Leu Val Cys Leu Leu Cys Ile
 1          5          10          15
Leu Gly Ala Pro Gly Gln Pro Val Arg Ala Asp Asp Cys Ser Ser His
          20          25          30
Cys Asp Leu Ala His Gly Cys Cys Ala Pro Asp Gly Ser Cys Arg Cys
          35          40          45
Asp Pro Gly Trp Glu Gly Leu His Cys Glu Arg Cys Val Arg Met Pro
          50          55          60
Gly Cys Gln His Gly Thr Cys His Gln Pro Trp Gln Cys Ile Cys His
          65          70          75          80
Ser Gly Trp Ala Gly Lys Phe Cys Asp Lys Asp Glu His Ile Cys Thr
          85          90          95
Thr Gln Ser Pro Cys Gln Asn Gly Gly Gln Cys Met Tyr Asp Gly Gly
          100          105          110
Gly Glu Tyr His Cys Val Cys Leu Pro Gly Phe His Gly Arg Asp Cys
          115          120          125
Glu Arg Lys Ala Gly Pro Cys Glu Gln Ala Gly Ser Pro Cys Arg Asn
          130          135          140
Gly Gly Gln Cys Gln Asp Asp Gln Gly Phe Ala Leu Asn Phe Thr Cys
          145          150          155          160
Arg Cys Leu Val Gly Phe Val Gly Ala Arg Cys Asp Val *
          165          170          173

```

<210> 1769
 <211> 78
 <212> PRT
 <213> Homo sapiens

```

<400> 1769
Met Leu Cys Leu Cys Arg Phe Ala Cys Ser Arg Arg Phe Thr Ala Met
 1          5          10          15
Gly Leu Phe Cys Leu Ala Ser Leu Thr Leu His His Ile Phe Lys Val
          20          25          30
His Pro Ser Cys Ser Val Ser Val Pro Pro Gly Phe Ser Leu Leu Ser
          35          40          45
Ser Ala Arg Cys Met Asp Arg Pro Arg Cys Ala His Leu Phe Ala Leu
          50          55          60
Met Gly Pro Cys Leu Gly Leu Ser Thr Phe Gly Arg Leu *
          65          70          75          77

```

<210> 1770
 <211> 149
 <212> PRT
 <213> Homo sapiens

```

<400> 1770
Met Leu Val Thr Leu Gly Leu Leu Thr Ser Phe Phe Ser Phe Leu Tyr
 1          5          10          15
Met Val Ala Pro Ser Ile Arg Lys Phe Phe Ala Gly Gly Val Cys Arg
          20          25          30
Thr Asn Val Gln Leu Pro Gly Lys Val Val Val Ile Thr Gly Ala Asn
          35          40          45
Thr Gly Ile Gly Lys Glu Thr Ala Arg Glu Leu Ala Ser Arg Gly Ala

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```

      50      55      60
Arg Val Tyr Ile Ala Cys Arg Asp Val Leu Lys Gly Glu Ser Ala Ala
65      70      75      80
Ser Glu Ile Arg Val Asp Thr Lys Asn Ser Gln Val Leu Val Arg Lys
      85      90      95
Leu Asp Leu Ser Asp Thr Lys Ser Ile Arg Ala Phe Ala Glu Gly Phe
      100      105      110
Leu Ala Glu Glu Lys Gln Leu His Ile Leu Ile Asn Asn Ala Gly Val
      115      120      125
Met Met Cys Pro Tyr Ser Lys Thr Ala Asp Gly Phe Glu Thr His Leu
      130      135      140
Gly Val Asn His Leu
145      149

```

<210> 1771
 <211> 76
 <212> PRT
 <213> Homo sapiens

```

      <400> 1771
Met Met Thr Leu Leu Arg Arg Gln Glu Arg Phe Pro Gly Ile Thr Phe
1      5      10      15
Trp Leu Leu Ile Gln Leu Leu Gln Gln Ile Leu Ile Ser Tyr His Gln
      20      25      30
Gly Ser Leu Thr Phe Met Glu Asn Gly Asn Cys Leu Leu Gln Leu Phe
      35      40      45
Gln Leu Gly Lys Leu Leu Val Gln Ala Ser His Leu His Gly Gln Leu
      50      55      60
Leu Val Phe Val Gln Lys Ile Ile Ile Ser Met *
      65      70      75

```

<210> 1772
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

      <400> 1772
Met Gly Ser Thr Lys His Trp Gly Glu Trp Leu Leu Asn Leu Lys Val
1      5      10      15
Ala Pro Ala Gly Val Phe Gly Val Ala Phe Leu Ala Arg Val Ala Leu
      20      25      30
Val Phe Tyr Gly Val Phe Gln Asp Arg Thr Leu His Val Arg Tyr Thr
      35      40      45
Asp Ile Asp Tyr Gln Val Phe Thr Asp Ala Ala Arg Phe Val Thr Glu
      50      55      60
Gly Arg Ser Pro Tyr Leu Arg Ala Thr Tyr Arg Tyr Thr Pro Leu Leu
      65      70      75
Gly Trp Leu Leu Thr Pro Asn Ile Tyr Leu Ser Glu Leu Phe Gly Lys
      85      90      95
Phe Leu Phe Ile Ser Cys Asp Leu Leu Thr Ala Phe Leu Leu Tyr Arg
      100      105      110
Leu Leu Leu Leu Lys Gly Leu Gly Arg Arg Gln Ala Cys Gly Tyr Cys
      115      120      125      128

```

<210> 1773
 <211> 614
 <212> PRT
 <213> Homo sapiens

<400> 1773
 Met Gly Ala Leu Arg Pro Thr Leu Leu Pro Pro Ser Leu Pro Leu Leu
 1 5 10 15
 Leu Leu Leu Met Leu Gly Met Gly Cys Trp Ala Arg Glu Val Leu Val
 20 25 30
 Pro Glu Gly Pro Leu Tyr Arg Val Ala Gly Thr Ala Val Ser Ile Ser
 35 40 45
 Cys Asn Val Thr Gly Tyr Glu Gly Pro Ala Gln Gln Asn Phe Glu Trp
 50 55 60
 Phe Leu Tyr Arg Pro Glu Ala Pro Asp Thr Ala Leu Gly Ile Val Ser
 65 70 75 80
 Thr Lys Asp Thr Gln Phe Ser Tyr Ala Val Phe Lys Ser Arg Val Val
 85 90 95
 Ala Gly Glu Val Gln Val Gln Arg Leu Gln Gly Asp Ala Val Val Leu
 100 105 110
 Lys Ile Ala Arg Leu Gln Ala Gln Asp Ala Gly Ile Tyr Glu Cys His
 115 120 125
 Thr Pro Ser Thr Asp Thr Arg Tyr Leu Gly Ser Tyr Ser Gly Lys Val
 130 135 140
 Glu Leu Arg Val Leu Pro Asp Val Leu Gln Val Ser Ala Ala Pro Pro
 145 150 155 160
 Gly Pro Arg Gly Arg Gln Ala Pro Thr Ser Pro Pro Arg Met Thr Val
 165 170 175
 His Glu Gly Gln Glu Leu Ala Leu Gly Cys Leu Ala Arg Thr Ser Thr
 180 185 190
 Gln Lys His Thr His Leu Ala Val Ser Phe Gly Arg Ser Val Pro Glu
 195 200 205
 Ala Pro Val Gly Arg Ser Thr Leu Gln Glu Val Val Gly Ile Arg Ser
 210 215 220
 Asp Leu Ala Val Glu Ala Gly Ala Pro Tyr Ala Glu Arg Leu Ala Ala
 225 230 235 240
 Gly Glu Leu Arg Leu Gly Lys Glu Gly Thr Asp Arg Tyr Arg Met Val
 245 250 255
 Val Gly Gly Ala Gln Ala Gly Asp Ala Gly Thr Tyr His Cys Thr Ala
 260 265 270
 Ala Glu Trp Ile Gln Asp Pro Asp Gly Ser Trp Ala Gln Ile Ala Glu
 275 280 285
 Lys Arg Ala Val Leu Ala His Val Asp Val Gln Thr Leu Ser Ser Gln
 290 295 300
 Leu Ala Val Thr Val Gly Pro Gly Glu Arg Arg Ile Gly Pro Gly Glu
 305 310 315 320
 Pro Leu Glu Leu Leu Cys Asn Val Ser Gly Ala Leu Pro Pro Ala Gly
 325 330 335
 Arg His Ala Ala Tyr Ser Val Gly Trp Glu Met Ala Pro Ala Gly Ala
 340 345 350
 Pro Gly Pro Gly Arg Leu Val Ala Gln Leu Asp Thr Glu Gly Val Gly
 355 360 365
 Ser Leu Gly Pro Gly Tyr Glu Gly Arg His Ile Ala Met Glu Lys Val


```

      370      375      380
Ala Ser Arg Thr Tyr Arg Leu Arg Leu Glu Ala Ala Arg Pro Gly Asp
385      390      395      400
Ala Gly Thr Tyr Arg Cys Leu Ala Lys Ala Tyr Val Arg Gly Ser Gly
      405      410      415
Thr Arg Leu Arg Glu Ala Ala Ser Ala Arg Ser Arg Pro Leu Pro Val
      420      425      430
His Val Arg Glu Glu Gly Val Val Leu Glu Ala Val Ala Trp Leu Ala
      435      440      445
Gly Gly Thr Val Tyr Arg Gly Glu Thr Ala Ser Leu Leu Cys Asn Ile
      450      455      460
Ser Val Arg Gly Gly Pro Gly Leu Arg Leu Ala Ala Ser Trp Trp
465      470      475      480
Val Glu Arg Pro Glu Asp Gly Glu Leu Ser Ser Val Pro Ala Gln Leu
      485      490      495
Val Gly Gly Val Gly Gln Asp Gly Val Ala Glu Leu Gly Val Arg Pro
      500      505      510
Gly Gly Gly Pro Val Ser Val Glu Leu Val Gly Pro Arg Ser His Arg
      515      520      525
Leu Arg Leu His Ser Leu Gly Pro Glu Asp Glu Gly Val Tyr His Cys
530      535      540
Ala Pro Ser Ala Trp Val Gln His Ala Asp Tyr Ser Trp Tyr Gln Ala
545      550      555      560
Gly Ser Ala Arg Ser Gly Pro Val Thr Val Tyr Pro Tyr Met His Ala
      565      570      575
Leu Asp Thr Leu Phe Val Pro Leu Leu Val Gly Thr Gly Val Ala Leu
      580      585      590
Val Thr Gly Ala Thr Val Leu Gly Thr Ile Thr Cys Cys Phe Met Lys
      595      600      605
Arg Leu Arg Lys Arg *
610      613

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```

<210> 1774
<211> 156
<212> PRT
<213> Homo sapiens

```

```

      <400> 1774
Met Glu Ala Leu Thr Leu Trp Leu Leu Pro Trp Ile Cys Gln Cys Val
 1      5      10      15
Ser Val Arg Ala Asp Ser Ile Ile His Ile Gly Ala Ile Phe Glu Glu
      20      25      30
Asn Ala Ala Lys Asp Asp Arg Val Phe Gln Leu Ala Val Ser Asp Leu
      35      40      45
Ser Leu Asn Asp Asp Ile Leu Gln Ser Glu Lys Ile Thr Tyr Ser Ile
      50      55      60
Lys Val Ile Glu Ala Asn Asn Pro Phe Gln Ala Val Gln Glu Ala Cys
      65      70      75      80
Asp Leu Met Thr Gln Gly Ile Leu Ala Leu Val Thr Ser Thr Gly Cys
      85      90      95
Ala Ser Ala Asn Ala Leu Gln Ser Leu Thr Asp Ala Met His Ile Pro
      100      105      110
His Leu Phe Val Gln Arg Asn Pro Gly Gly Ser Pro Arg Thr Ala Cys
      115      120      125
His Leu Asn Pro Ser Pro Asp Gly Glu Ala Tyr Thr Leu Ala Ser Arg
      130      135      140

```

Pro Pro Val Arg Leu Asn Asp Val Met Leu Arg Leu
 145 150 155 156

<210> 1775

<211> 896

<212> PRT

<213> Homo sapiens

<400> 1775

Met Gln Lys Ala Ser Val Leu Leu Phe Leu Ala Trp Val Cys Phe Leu
 1 5 10 15
 Phe Tyr Ala Gly Ile Ala Leu Phe Thr Ser Gly Phe Leu Leu Thr Arg
 20 25 30
 Leu Glu Leu Thr Asn His Ser Ser Cys Gln Glu Pro Pro Gly Pro Gly
 35 40 45
 Ser Leu Pro Trp Gly Ser Gln Gly Lys Pro Gly Ala Cys Trp Met Ala
 50 55 60
 Ser Arg Phe Ser Arg Val Val Leu Val Leu Ile Asp Ala Leu Arg Phe
 65 70 75 80
 Asp Phe Ala Gln Pro Gln His Ser His Val Pro Arg Glu Pro Pro Val
 85 90 95
 Ser Leu Pro Phe Leu Gly Lys Leu Ser Ser Leu Gln Arg Ile Leu Glu
 100 105 110
 Ile Gln Pro His His Ala Arg Leu Tyr Arg Ser Gln Val Asp Pro Pro
 115 120 125
 Thr Thr Thr Met Gln Arg Leu Lys Ala Leu Thr Thr Gly Ser Leu Pro
 130 135 140
 Thr Phe Ile Asp Ala Gly Ser Asn Phe Ala Ser His Ala Ile Val Glu
 145 150 155 160
 Asp Asn Leu Ile Lys Gln Leu Thr Ser Ala Gly Arg Arg Val Val Phe
 165 170 175
 Met Gly Asp Asp Thr Trp Lys Asp Leu Phe Pro Gly Ala Phe Ser Lys
 180 185 190
 Ala Phe Phe Phe Pro Ser Phe Asn Val Arg Asp Leu Asp Thr Val Asp
 195 200 205
 Asn Gly Ile Leu Glu His Leu Tyr Pro Thr Met Asp Ser Gly Glu Trp
 210 215 220
 Asp Val Leu Ile Ala His Phe Leu Gly Val Asp His Cys Gly His Lys
 225 230 235 240
 His Gly Pro His His Pro Glu Met Ala Lys Lys Leu Ser Gln Met Asp
 245 250 255
 Gln Val Ile Gln Gly Leu Val Glu Arg Leu Glu Asn Asp Thr Leu Leu
 260 265 270
 Val Val Ala Gly Asp His Gly Met Thr Thr Asn Gly Asp His Gly Gly
 275 280 285
 Asp Ser Glu Leu Glu Val Ser Ala Ala Leu Phe Leu Tyr Ser Pro Thr
 290 295 300
 Ala Val Phe Pro Ser Thr Pro Pro Glu Glu Pro Glu Val Ile Pro Gln
 305 310 315 320
 Val Ser Leu Val Pro Thr Leu Ala Leu Leu Gly Leu Pro Ile Pro
 325 330 335
 Phe Gly Asn Ile Gly Glu Val Met Ala Glu Leu Phe Ser Gly Gly Glu
 340 345 350
 Asp Ser Gln Pro His Ser Ser Ala Leu Ala Gln Ala Ser Ala Leu His
 355 360 365
 Leu Asn Ala Gln Gln Val Ser Arg Phe Phe His Thr Tyr Ser Ala Ala

370	375	380
Thr Gln Asp Leu Gln	Ala Lys Glu Leu His	Gln Leu Gln Asn Leu Phe
385	390	395
Ser Lys Ala Ser Ala	Asp Tyr Gln Trp Leu	Leu Gln Ser Pro Lys Gly
405	410	415
Ala Glu Ala Thr Leu	Pro Thr Val Ile Ala	Glu Leu Gln Gln Phe Leu
420	425	430
Arg Gly Ala Arg Ala	Met Cys Ile Glu Ser	Trp Ala Arg Phe Ser Leu
435	440	445
Val Arg Met Ala Gly	Gly Thr Ala Leu Leu	Ala Ala Ser Cys Phe Ile
450	455	460
Cys Leu Leu Ala Ser	Gln Trp Ala Ile Ser	Pro Gly Phe Pro Phe Cys
465	470	475
Pro Leu Leu Leu Thr	Pro Val Ala Trp Gly	Leu Val Gly Ala Ile Ala
485	490	495
Tyr Ala Gly Leu Leu	Gly Thr Ile Glu Leu	Lys Leu Asp Leu Val Leu
500	505	510
Leu Gly Ala Val Ala	Ala Val Ser Ser Phe	Leu Pro Phe Leu Trp Lys
515	520	525
Ala Trp Ala Gly Trp	Gly Ser Lys Arg Pro	Leu Ala Thr Leu Phe Pro
530	535	540
Ile Pro Gly Pro Val	Leu Leu Leu Leu Leu	Phe Arg Leu Ala Val Phe
545	550	555
Phe Ser Asp Ser Phe	Val Val Ala Glu Ala	Arg Ala Thr Pro Phe Leu
565	570	575
Leu Gly Ser Phe Ile	Leu Leu Leu Val Val	Gln Leu His Trp Glu Gly
580	585	590
Gln Leu Leu Pro Pro	Lys Leu Leu Thr Met	Pro Arg Leu Gly Thr Ser
595	600	605
Ala Thr Thr Asn Pro	Pro Arg His Asn Gly	Ala Tyr Ala Leu Arg Leu
610	615	620
Gly Ile Gly Leu Leu	Leu Cys Thr Arg Leu	Ala Gly Leu Phe His Arg
625	630	635
Cys Pro Glu Glu Thr	Pro Val Cys His Ser	Ser Pro Trp Leu Ser Pro
645	650	655
Leu Ala Ser Met Val	Gly Gly Arg Ala Lys	Asn Leu Trp Tyr Gly Ala
660	665	670
Cys Val Ala Ala Leu	Val Ala Leu Leu Ala	Ala Val Arg Leu Trp Leu
675	680	685
Arg Arg Tyr Gly Asn	Leu Lys Ser Pro Glu	Pro Pro Met Leu Phe Val
690	695	700
Arg Trp Gly Leu Pro	Leu Met Ala Leu Gly	Thr Ala Ala Tyr Trp Ala
705	710	715
Leu Ala Ser Gly Ala	Asp Glu Ala Pro Pro	Arg Leu Arg Val Leu Val
725	730	735
Ser Gly Ala Ser Met	Val Leu Pro Arg Ala	Val Ala Gly Leu Ala Ala
740	745	750
Ser Gly Leu Ala Leu	Leu Leu Leu Trp Lys	Pro Val Thr Val Leu Val Lys
755	760	765
Ala Gly Ala Gly Ala	Pro Arg Thr Arg Thr	Val Leu Thr Pro Phe Ser
770	775	780
Gly Pro Pro Thr Ser	Gln Ala Asp Leu Asp	Tyr Val Val Pro Gln Ile
785	790	795
Tyr Arg His Met Gln	Glu Glu Phe Arg Gly	Arg Leu Glu Arg Thr Lys
805	810	815
Ser Gln Gly Pro Leu	Thr Val Ala Ala Tyr	Gln Leu Gly Ser Val Tyr
820	825	830
Ser Ala Ala Met Val	Thr Ala Leu Thr Leu	Leu Ala Phe Pro Leu Leu
835	840	845

Leu Leu His Ala Glu Arg Ile Ser Leu Val Phe Leu Leu Leu Phe Leu
 850 855 860
 Gln Ser Phe Leu Leu Leu His Leu Leu Ala Ala Gly Ile Pro Val Thr
 865 870 875 880
 Thr Pro Gly Lys Tyr Leu Ser Ser Asp Ser Leu Lys Asp Asn Ser Asp
 885 890 895 896

<210> 1776
 <211> 178
 <212> PRT
 <213> Homo sapiens

<400> 1776
 Met Trp Ala Cys Trp Cys Val Leu Gly Thr Pro Gly Val Ala Met Val
 1 5 10 15
 Leu Leu His Thr Thr Ile Ser Phe Cys Val Ala Gln Phe Arg Ser Gln
 20 25 30
 Leu Leu Thr Trp Leu Cys Ser Leu Leu Leu Ser Thr Leu Arg Leu
 35 40 45
 Gln Gly Val Glu Glu Val Lys Arg Arg Trp Tyr Lys Thr Glu Asn Glu
 50 55 60
 Tyr Tyr Leu Leu Gln Phe Thr Leu Thr Val Arg Cys Leu Tyr Tyr Thr
 65 70 75 80
 Ser Phe Ser Leu Glu Leu Cys Trp Gln Gln Leu Pro Ala Ala Ser Thr
 85 90 95
 Ser Tyr Ser Phe Pro Trp Met Leu Ala Tyr Val Phe Tyr Tyr Pro Val
 100 105 110
 Leu His Asn Gly Pro Ile Leu Ser Phe Ser Glu Phe Ile Lys Gln Arg
 115 120 125
 Ser Gln Trp Ser Asn Arg Glu Phe Gly Met Glu Val Glu Ser Lys Gly
 130 135 140
 Pro Gly Ala His Pro Pro Gly Phe Glu Ser Leu Leu Cys Phe Gly Leu
 145 150 155 160
 Arg Val Leu Ala Glu Leu Leu Thr Leu Leu Met Pro Gln Ser Ser Tyr
 165 170 175
 Gln *
 177

<210> 1777
 <211> 59
 <212> PRT
 <213> Homo sapiens

<400> 1777
 Met Pro Thr Tyr Trp Leu Ala Asn Leu Arg Pro Gly Leu Gln Pro Phe
 1 5 10 15
 Leu Leu His Phe Leu Leu Glu Trp Leu Ala Val Phe Cys Cys Lys Ile
 20 25 30
 Met Val Leu Ala Ala Ala Gly Leu Leu Pro Thr Leu His Met Ala Ser
 35 40 45
 Phe Phe Ser Asn Ala Leu Tyr Asn Cys Phe Tyr

50

55

59

<210> 1778
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1778
 Met Val Ala Pro Gly Leu Val Leu Gly Leu Val Leu Pro Leu Ile Leu
 1 5 10 15
 Trp Ala Asp Arg Ser Ala Gly Ile Gly Phe Arg Phe Ala Ser Tyr Ile
 20 25 30
 Asn Asn Asp Met Val Leu Gln Lys Glu Pro Ala Gly Ala Val Ile Trp
 35 40 45
 Gly Phe Gly Thr Pro Gly Ala Thr Val Thr Val Thr Leu Arg Gln Gly
 50 55 60
 Gln Glu Thr Ile Met Lys Lys Val Thr Ser Val Lys Ala His Ser Asp
 65 70 75 80
 Thr Trp Met Val Val Leu Asp Pro Met Lys Pro Gly Gly Pro Phe Glu
 85 90 95
 Val Met Ala Gln Gln Thr Leu Glu Lys Ile Asn Phe Thr Leu Arg Val
 100 105 110
 His Asp Val Leu Phe Gly Asp Val Trp Leu Cys Ser Gly Gln Ser Asn
 115 120 125
 Met Gln Met Thr Val Leu Gln Ile Phe
 130 135 137

<210> 1779
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1779
 Met Lys Val Phe Phe Leu Asp Glu Ser Trp Pro Gln Trp Arg Phe Ala
 1 5 10 15
 Ala Gly Leu Leu Ala Leu Ser Phe Gly Gly Pro Ala Trp Lys Phe Leu
 20 25 30
 Ser Val Gln Arg Val Ile Pro Trp Leu Trp Ala Ala Lys Glu Lys Pro
 35 40 45
 Leu Gly Pro Leu Ala Thr Pro Pro Arg Leu Asn Pro Lys Val Gly Val
 50 55 60 64
 *

<210> 1780
 <211> 53
 <212> PRT
 <213> Homo sapiens

<400> 1780

```

Met Phe His Cys Tyr Trp Phe Arg Cys Leu Ser Pro Gln Thr Leu Leu
 1           5           10           15
Cys Lys Cys Phe Ser Lys Gly Arg Thr Asp Trp Asn Cys Gly Ser Ala
          20           25           30
Arg Ser His Ser Phe Gln Ser His Phe Phe Ser Ala Ala Leu Ser Ser
          35           40           45
Cys Gly Thr Leu *
          50           52

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<210> 1781
<211> 109
<212> PRT
<213> Homo sapiens

```

```

<400> 1781
Met Met His Asn Ile Ile Val Lys Glu Leu Ile Val Thr Phe Phe Leu
 1           5           10           15
Gly Ile Thr Val Val Gln Met Leu Ile Ser Val Thr Gly Leu Lys Gly
          20           25           30
Val Glu Ala Gln Asn Gly Ser Glu Ser Glu Val Phe Val Gly Lys Tyr
          35           40           45
Glu Thr Leu Val Phe Tyr Trp Pro Ser Leu Leu Cys Leu Ala Phe Leu
          50           55           60
Leu Gly Arg Phe Leu His Met Phe Val Lys Ala Leu Arg Val His Leu
          65           70           75           80
Gly Trp Glu Leu Gln Val Glu Glu Lys Ser Val Leu Glu Val His Gln
          85           90           95
Gly Glu His Val Lys Gln Leu Leu Arg Ile Pro Arg Pro
          100           105           109

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```

<210> 1782
<211> 58
<212> PRT
<213> Homo sapiens

```

```

<400> 1782
Met Ala Ser Thr Trp Ser Leu Glu Arg Val Gly Thr Cys Leu Pro Cys
 1           5           10           15
Gly Phe Gly Thr Trp Gln Ser Thr Ala Arg Trp Pro Ser Cys Arg Ser
          20           25           30
Thr Ser Met Val Trp Leu Val Trp Pro Ser Leu Leu Ala Pro Ser Thr
          35           40           45
Leu Ser Leu Trp Ala Thr Ser Met Thr *
          50           55           57

```

```

<210> 1783
<211> 102
<212> PRT
<213> Homo sapiens

```

<400> 1783

```

Met Leu Ile Pro His Gln Leu Pro Leu Cys Ser Pro Trp Leu Val Gln
 1          5          10          15
Ala Met Leu Thr Ile Glu Val Pro Trp Leu Leu Gly Leu Ala His Tyr
      20          25          30
Arg Leu Gly Trp His Ala Leu Glu Gly Ile Phe Trp Trp Gly Ala Ser
      35          40          45
Val Phe His Ala Leu Gln Ala Met Leu Val Arg Lys Trp Pro Leu Gly
      50          55          60
Leu Val Glu Phe Thr Gly Thr Cys Gly Ile Leu Val Glu Val Ile Gly
      65          70          75          80
Leu Trp Trp Gly Glu Gly Ser Thr Gly Asn Arg Trp Met Gly Leu Asn
      85          90          95
Ser Thr Gly Gly Gln *
      100 101

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<210> 1784

<211> 243

<212> PRT

<213> Homo sapiens

<400> 1784

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Met Gly Glu Ala Ser Pro Pro Ala Pro Ala Arg Arg His Leu Leu Val
 1          5          10          15
Leu Leu Leu Leu Leu Ser Thr Leu Val Ile Pro Ser Ala Ala Ala Pro
      20          25          30
Ile His Asp Ala Asp Ala Gln Glu Ser Ser Leu Gly Leu Thr Gly Leu
      35          40          45
Gln Ser Leu Leu Gln Gly Phe Ser Arg Leu Phe Leu Lys Gly Asn Leu
      50          55          60
Leu Arg Gly Ile Asp Ser Leu Phe Ser Ala Pro Met Asp Phe Arg Gly
      65          70          75          80
Leu Pro Gly Asn Tyr His Lys Glu Glu Asn Gln Glu His Gln Leu Gly
      85          90          95
Asn Asn Thr Leu Ser Ser His Leu Gln Ile Asp Lys Met Thr Asp Asn
      100          105          110
Lys Thr Gly Glu Val Leu Ile Ser Glu Asn Val Val Ala Ser Ile Gln
      115          120          125
Pro Ala Glu Gly Ser Phe Glu Gly Asp Leu Lys Val Pro Arg Met Glu
      130          135          140
Glu Lys Glu Ala Leu Val Pro Ile Gln Lys Ala Thr Asp Ser Phe His
      145          150          155          160
Thr Glu Leu His Pro Arg Val Ala Phe Trp Ile Ile Lys Leu Pro Arg
      165          170          175
Arg Arg Ser His Gln Asp Ala Leu Glu Gly Gly His Trp Leu Ser Glu
      180          185          190
Lys Arg His Arg Leu Gln Ala Ile Arg Asp Gly Leu Arg Lys Gly Thr
      195          200          205
His Lys Asp Val Leu Glu Glu Gly Thr Glu Ser Ser His Ser Arg
      210          215          220
Leu Ser Pro Arg Lys Thr His Leu Leu Tyr Ile Leu Arg Pro Ser Arg
      225          230          235          240
Gln Leu *
      242

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<210> 1785
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1785
 Met Lys Ala Leu Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala Asn
 1 5 10 15
 Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu Leu Cys
 20 25 30
 Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys Arg Arg Ser
 35 40 45
 Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr Ala Thr Ala Pro
 50 55 60
 Ser Pro Glu Val Ser Ala Ala Thr Ile Ser Leu Met Thr Asp Glu
 65 70 75 80
 Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser Ser Ala Glu Asp Gly Gln
 85 90 95
 Pro Ala Ile Ser Pro Val Asp Ser Gly Arg Ser Asn Arg Thr Arg Ala
 100 105 110
 Arg Pro Phe Glu Arg Ser Thr Ile Ile Ser Arg Ser Phe Lys Lys Ile
 115 120 125
 Asn Arg Ala Leu Ser Val Leu Arg Arg Thr Lys Ser Gly Ser Ala Val
 130 135 140
 Ala Asn His Ala Asp Gln Gly Arg Glu Asn Ser Glu Asn Thr
 145 150 155 158

<210> 1786
 <211> 142
 <212> PRT
 <213> Homo sapiens

<400> 1786
 Met Glu Ser Ala Val Arg Val Glu Ser Gly Val Leu Val Gly Val Val
 1 5 10 15
 Cys Leu Leu Leu Ala Cys Pro Ala Thr Ala Thr Gly Pro Glu Val Ala
 20 25 30
 Gln Pro Glu Val Asp Thr Thr Leu Gly Arg Val Arg Gly Arg Gln Val
 35 40 45
 Gly Val Lys Gly Thr Asp Arg Leu Val Asn Val Phe Leu Gly Ile Pro
 50 55 60
 Phe Ala Gln Pro Pro Leu Gly Pro Asp Arg Phe Ser Ala Pro His Pro
 65 70 75 80
 Ala Gln Pro Trp Glu Gly Val Arg Asp Ala Ser Thr Ala Pro Pro Met
 85 90 95
 Cys Leu Gln Asp Val Glu Ser Met Asn Ser Ser Arg Phe Val Leu Asn
 100 105 110
 Gly Lys Gln Gln Ile Phe Ser Val Ser Glu Asp Cys Leu Val Leu Asn
 115 120 125
 Val Tyr Ser Pro Ala Glu Val Pro Ala Gly Ser Gly Arg Pro
 130 135 140 142

<210> 1787
 <211> 120
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(120)
 <223> Xaa = any amino acid or nothing

<400> 1787
 Met Ala Leu Thr Gly Tyr Ser Trp Leu Leu Leu Ser Ala Thr Phe Leu
 1 5 10 15
 Asn Val Gly Ala Glu Ile Ser Ile Thr Leu Glu Pro Ala Gln Pro Ser
 20 25 30
 Glu Gly Asp Asn Val Thr Leu Val Val His Gly Leu Ser Gly Glu Leu
 35 40 45
 Leu Ala Tyr Ser Trp Tyr Ala Gly Pro Thr Leu Ser Val Ser Tyr Leu
 50 55 60
 Val Ala Ser Tyr Ile Val Ser Thr Gly Asp Glu Thr Pro Gly Pro Ala
 65 70 75 80
 His Thr Xaa Arg Glu Ala Val Arg Pro Asp Gly Ser Leu Asp Ile Gln
 85 90 95
 Gly Ile Leu Pro Arg His Ser Ser Thr Tyr Ile Leu Gln Thr Phe Asn
 100 105 110
 Arg Gln Leu Gln Thr Glu Val Gly
 115 120

<210> 1788
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1788
 Met Ser Trp Leu Ala Asn Gly Val Cys Leu Tyr Glu Tyr Leu Phe Phe
 1 5 10 15
 Arg Cys Gly Phe Leu Ile Leu Gln Pro Cys Ser Phe Asp Ala Ser Leu
 20 25 30
 Thr Asp Glu Glu Ser Arg Lys Asn Trp Glu Glu Phe Gly Asn Pro Asp
 35 40 45
 Gly Pro Gln Gly Val Val Asn Asp Asp Phe Lys Ile Leu Ala Ile Trp
 50 55 60
 Tyr Ile Leu *
 65 67

<210> 1789
 <211> 133
 <212> PRT
 <213> Homo sapiens

<400> 1789
 Met Ala Val Val Ile Arg Leu Leu Gly Leu Pro Phe Ile Ala Gly Pro
 1 5 10 15

```

Val Asp Ile Arg His Phe Phe Thr Gly Leu Thr Ile Pro Asp Gly Gly
      20      25      30
Val His Ile Ile Gly Gly Glu Ile Gly Glu Ala Phe Ile Ile Phe Ala
      35      40      45
Thr Asp Glu Asp Ala Arg Arg Ala Ile Ser Arg Ser Gly Gly Phe Ile
      50      55      60
Lys Asp Ser Ser Val Glu Leu Phe Leu Ser Ser Lys Ala Glu Met Gln
      65      70      75      80
Lys Thr Ile Glu Met Lys Arg Thr Asp Arg Val Gly Arg Gly Arg Pro
      85      90      95
Gly Ser Gly Thr Ser Gly Val Asp Ser Leu Ser Asn Phe Ile Glu Ser
      100      105      110
Val Lys Glu Glu Ala Ser Asn Ser Gly Tyr Gly Ser Ser Ile Asn Gln
      115      120      125
Asp Ala Gly Phe His
      130      133

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<210> 1790
<211> 82
<212> PRT
<213> Homo sapiens

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<400> 1790
Met Ala Ala Trp Gly Phe Cys Phe Ala Val Ser Ala Leu Val Val Ala
  1      5      10      15
Cys Glu Phe Thr Arg Leu His Gly Cys Leu Arg Leu Ser Trp Gly Asn
      20      25      30
Phe Thr Ala Ala Phe Ala Met Leu Ala Thr Leu Leu Cys Ala Thr Ala
      35      40      45
Ala Val Leu Tyr Pro Leu Tyr Phe Ala Arg Arg Glu Cys Pro Pro Glu
      50      55      60
Pro Ala Gly Cys Ala Ala Arg Asp Phe Arg Leu Ala Ala Ser Val Phe
      65      70      75      80
Ala Gly
      82

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<210> 1791
<211> 50
<212> PRT
<213> Homo sapiens

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<400> 1791
Met His Ala Ser Glu Gly Leu Pro Ala Leu Pro Leu Leu Ala Leu Val
  1      5      10      15
Ser His Ser His Ser Cys Pro Pro Leu Pro Leu Gln Pro His His Leu
      20      25      30
Pro Ala Ile Leu Phe Phe Leu Val Gly His Gln Leu Met Lys Cys Ile
      35      40      45
Arg *
      49

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<210> 1792
 <211> 166
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(166)
 <223> Xaa = any amino acid or nothing

<400> 1792
 Met Leu Leu Trp Leu Leu Leu Leu Ile Leu Thr Pro Gly Arg Glu Gln
 1 5 10 15
 Ser Gly Val Ala Pro Lys Ala Val Leu Leu Leu Asp Pro Pro Trp Ser
 20 25 30
 Thr Ala Phe Lys Gly Glu Lys Val Ala Leu Ile Cys Ser Ser Ile Ser
 35 40 45
 His Ser Leu Ala Gln Gly Asp Thr Tyr Trp Tyr His Asp Glu Lys Leu
 50 55 60
 Leu Lys Ile Lys His Asp Lys Ile Gln Ile Thr Glu Pro Gly Asn Tyr
 65 70 75 80
 Gln Cys Lys Thr Arg Gly Ser Ser Leu Ser Asp Ala Val His Val Glu
 85 90 95
 Phe Ser Pro Asp Trp Leu Ile Leu Gln Ala Leu His Pro Val Phe Glu
 100 105 110
 Gly Asp Asn Val Ile Leu Arg Cys Gln Gly Lys Asp Asn Lys Asn Thr
 115 120 125
 His His Lys Val Tyr Tyr Lys Asp Gly Lys Gln Xaa Ser Asn Ser Tyr
 130 135 140
 Asn Leu Glu Lys Asn Thr Val Asp Ser Val Ser Arg Asp Asn Ser Pro
 145 150 155 160
 Tyr Tyr Cys Ala Gly *
 165

<210> 1793
 <211> 146
 <212> PRT
 <213> Homo sapiens

<400> 1793
 Met Ala Thr Ala Ala Gln Gly Pro Leu Ser Leu Leu Trp Gly Trp Leu
 1 5 10 15
 Trp Ser Glu Arg Phe Trp Leu Pro Glu Asn Val Ser Trp Ala Asp Leu
 20 25 30
 Glu Gly Pro Ala Asp Gly Tyr Gly Tyr Pro Arg Gly Arg His Ile Leu
 35 40 45
 Ser Val Phe Pro Leu Ala Ala Gly Ile Phe Phe Val Arg Leu Leu Phe
 50 55 60
 Glu Arg Phe Ile Ala Lys Pro Cys Ala Leu Arg Ile Gly Ile Glu Asp
 65 70 75 80
 Ser Gly Pro Tyr Gln Ala Gln Pro Asn Ala Ile Leu Glu Lys Val Phe
 85 90 95
 Ile Ser Ile Thr Lys Tyr Pro Asp Lys Lys Arg Leu Glu Gly Leu Ser
 100 105 110
 Lys Gln Leu Asp Trp Asn Val Arg Lys Ile Gln Cys Trp Phe Arg His
 115 120 125

Arg Arg Asn Gln Asp Lys Pro Pro Thr Leu Thr Lys Phe Cys Glu Ser
 130 135 140
 Met *
 145

<210> 1794
 <211> 151
 <212> PRT
 <213> Homo sapiens

<400> 1794
 Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1 5 10 15
 Ala Leu Pro Ser Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Asp Lys
 20 25 30
 Glu Ala Cys Val Gly Thr Asn Asn Gln Ser Tyr Ile Cys Asp Thr Gly
 35 40 45
 His Cys Cys Gly Gln Ser Gln Cys Cys Asn Tyr Tyr Tyr Glu Leu Trp
 50 55 60
 Trp Phe Trp Leu Val Trp Thr Ile Ile Ile Ile Leu Ser Cys Cys Cys
 65 70 75 80
 Val Cys His His Arg Arg Ala Lys His Arg Leu Gln Ala Gln Gln Arg
 85 90 95
 Gln His Glu Ile Asn Leu Ile Ala Tyr Arg Glu Ala His Asn Tyr Ser
 100 105 110
 Ala Leu Pro Phe Tyr Phe Arg Phe Leu Pro Asn Tyr Leu Leu Pro Pro
 115 120 125
 Tyr Glu Glu Val Val Asn Arg Pro Pro Thr Pro Pro Pro Tyr Ser
 130 135 140
 Ala Phe Gln Leu Gln Gln Gln
 145 150 151

<210> 1795
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 1795
 Met Ala Ala Leu Ala Ala Ala Lys Lys Val Trp Ser Ala Arg Arg
 1 5 10 15
 Leu Leu Val Leu Leu Phe Thr Pro Leu Ala Leu Leu Pro Val Val Phe
 20 25 30
 Ala Leu Pro Pro Lys Glu Gly Arg Cys Leu Phe Val Ile Leu Leu Met
 35 40 45
 Ala Val Tyr Trp Cys Thr Glu Ala Leu Pro Leu Ser Val Thr Ala Leu
 50 55 60
 Leu Pro Ile Val Leu Phe Pro Phe Met Gly Ile Leu Pro Ser Asn Lys
 65 70 75 80
 Val Cys Pro Gln Tyr Phe Leu Asp Thr Asn Phe Leu Phe Leu Ser Gly
 85 90 95
 Leu Ile Met Ala Ser Ala Ile Glu Glu Trp Asn Leu His Arg Arg Ile
 100 105 110
 Ala Leu Lys Ile Leu Met Leu Val Gly Val Gln Pro Ala Arg Leu Ile

```

      115      120      125
Leu Gly Met Met Val Thr Thr Ser Phe Leu Ser Met Trp Leu Ser Asn
      130      135      140
Thr Ala Ser Thr Ala Met Met Leu Pro Ile Ala Asn Ala Ile Leu Lys
145      150      155      160
Ser Leu Phe Gly Gln Lys Glu Val Arg Lys Asp Pro Gln Pro Gly Glu
      165      170      175 176

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<210> 1796

<211> 98

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(98)

<223> Xaa = any amino acid or nothing

<400> 1796

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Met His Pro Leu Pro Gly Tyr Trp Ser Cys Tyr Cys Leu Leu Leu
 1      5      10      15
Phe Ser Leu Gly Val Gln Gly Ser Leu Gly Ala Pro Ser Ala Ala Pro
      20      25      30
Glu Gln Val His Leu Ser Tyr Pro Gly Glu Pro Gly Ser Met Thr Val
      35      40      45
Thr Trp Thr Thr Trp Val Pro Thr Arg Ser Glu Val Gln Phe Gly Leu
      50      55      60
Gln Pro Ser Gly Pro Leu Pro Leu Arg Ala Gln Gly Thr Phe Val Pro
      65      70      75      80
Phe Val Asp Xaa Gly Ile Leu Arg Arg Lys Leu Tyr Ile His Arg Val
      85      90      95
Thr Leu
98

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<210> 1797

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1797

```

Met Phe Leu Trp Leu Phe Leu Ile Leu Ser Ala Leu Ile Ser Ser Thr
 1      5      10      15
Asn Ala Asp Ser Asp Ile Ser Val Glu Ile Cys Asn Val Cys Ser Cys
      20      25      30
Val Ser Val Glu Asn Val Leu Tyr Val Asn Cys Glu Lys Val Ser Val
      35      40      45
Tyr Arg Pro Asn Gln Leu Lys Pro Pro Trp Ser Asn Phe Tyr His Leu
      50      55      60
Asn Phe Gln Asn Asn Phe Leu Asn Ile Leu Tyr Pro Asn Thr Phe Leu
      65      70      75      80
Asn Phe Ser His Ala Val Ser Leu His Leu Gly Asn Asn Lys Leu Gln
      85      90      95 96

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<210> 1798
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1798
 Met Arg Pro Ala Leu Ala Val Gly Leu Val Phe Ala Gly Cys Cys Ser
 1 5 10 15
 Asn Val Ile Phe Leu Glu Leu Leu Ala Arg Lys His Pro Gly Cys Gly
 20 25 30
 Asn Ile Val Thr Phe Ala Gln Phe Leu Phe Ile Ala Val Glu Gly Phe
 35 40 45
 Leu Phe Glu Ala Asp Leu Gly Arg Lys Pro Pro Ala Ile Pro Ile Arg
 50 55 60
 Tyr Tyr Ala Ile Met Val Thr Met Phe Phe Thr Val Ser Val Val Asn
 65 70 75 80
 Asn Tyr Ala Leu Asn Leu Asn Ile Ala Met Pro
 85 90 91

<210> 1799
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1799
 Met Arg Ser Leu Val Trp Val Leu Ile Gln Gln Leu Thr Pro Leu Tyr
 1 5 10 15
 Lys Gly Glu Thr Trp Thr Gln Thr Cys Thr Glu Asp His Val Thr Met
 20 25 30
 Lys Ala Glu Ile Arg Val Met Leu Leu Glu Ala Arg Glu Asp Cys Gln
 35 40 45
 Leu Met Thr Lys Arg Ser Gln Glu Thr Gly Leu Gln Arg Ile Leu Pro
 50 55 60
 Glu Gly Ser Gln Lys Glu Pro Thr Leu Thr Thr Pro *
 65 70 75 76

<210> 1800
 <211> 182
 <212> PRT
 <213> Homo sapiens

<400> 1800
 Met Ser Leu Lys Met Leu Ile Ser Arg Asn Lys Leu Ile Leu Leu Leu
 1 5 10 15
 Gly Ile Val Phe Phe Glu Arg Gly Lys Ser Ala Thr Leu Ser Leu Pro
 20 25 30
 Lys Ala Pro Ser Cys Gly Gln Ser Leu Val Lys Val Gln Pro Trp Asn

```

      35      40      45
Tyr Phe Asn Ile Phe Ser Arg Ile Leu Gly Gly Ser Gln Val Glu Lys
    50      55      60
Gly Ser Tyr Pro Trp Gln Val Ser Leu Lys Gln Arg Gln Lys His Ile
    65      70      75      80
Cys Gly Gly Ser Ile Val Ser Pro Gln Trp Val Ile Thr Ala Ala His
      85      90      95
Cys Ile Ala Asn Arg Asn Ile Val Ser Thr Leu Asn Val Thr Ala Gly
      100      105      110
Glu Tyr Asp Leu Ser Gln Thr Asp Pro Gly Glu Gln Thr Leu Thr Ile
      115      120      125
Glu Thr Val Ile Ile His Pro His Phe Ser Thr Lys Lys Pro Met Asp
      130      135      140
Tyr Asp Ile Ala Leu Leu Lys Met Ala Gly Ala Phe Gln Phe Gly His
      145      150      155      160
Phe Val Gly Pro Ile Cys Leu Pro Glu Leu Arg Glu Gln Phe Glu Ala
      165      170      175
Gly Phe Ile Cys Thr Thr
      180      182

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<210> 1801
 <211> 202
 <212> PRT
 <213> Homo sapiens

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      <400> 1801
Met Thr Glu Ala Thr Phe Asp Thr Leu Arg Leu Trp Leu Ile Ile Leu
  1      5      10      15
Leu Cys Ala Leu Arg Leu Ala Met Met Arg Ser His Leu Gln Ala Tyr
      20      25      30
Leu Asn Leu Ala Gln Lys Cys Val Asp Gln Met Lys Lys Glu Ala Gly
      35      40      45
Arg Ile Ser Thr Val Glu Leu Gln Lys Met Val Ala Arg Val Phe Tyr
      50      55      60
Tyr Leu Cys Val Ile Ala Leu Gln Tyr Val Ala Pro Leu Val Met Leu
      65      70      75      80
Leu His Thr Thr Leu Leu Lys Thr Leu Gly Asn His Ser Trp Gly
      85      90      95
Ile Tyr Pro Glu Ser Ile Ser Thr Leu Pro Val Asp Asn Ser Leu Leu
      100      105      110
Ser Asn Ser Val Tyr Ser Glu Leu Pro Ser Ala Glu Gly Lys Met Lys
      115      120      125
His Asn Ala Arg Gln Gly Pro Ala Val Pro Pro Gly Met Gln Ala Tyr
      130      135      140
Gly Ala Ala Pro Phe Glu Asp Leu Gln Leu Asp Phe Thr Glu Met Pro
      145      150      155      160
Lys Cys Gly Asp Leu Ile Pro Arg Phe Gly Leu Pro Leu Arg Ile Gly
      165      170      175
Ser Asp Asn Gly Leu Ala Phe Val Ala Asp Leu Val Gln Lys Thr Ala
      180      185      190
Lys Trp Lys Gly Pro Gln Ile Val Val Leu
      195      200      202

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<210> 1802

<211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1802
 Met Asn Asn Phe Arg Ala Thr Ile Leu Phe Trp Ala Ala Ala Ala Trp
 1 5 10 15
 Ala Lys Ser Gly Lys Pro Ser Gly Glu Met Asp Glu Val Gly Val Gln
 20 25 30
 Lys Cys Lys Asn Ala Leu Lys Leu Pro Val Leu Glu Val Leu Pro Gly
 35 40 45
 Gly Gly Trp Asp Asn Leu Arg Asn Val Asp Met Gly Arg Val Met Glu
 50 55 60
 Leu Thr Tyr Ser Asn Cys Arg Thr Thr Glu Asp Gly Gln Tyr Ile Ile
 65 70 75 80
 Pro Asp Glu Ile Phe Thr Ile Pro Gln Lys Gln Ser Asn Leu Glu Met
 85 90 95
 Asn Ser Glu Ile Leu Glu Ser Trp Ala Asn Tyr Gln Ser Ser Thr Ser
 100 105 110
 Tyr Ser Ile Asn Thr Glu Leu Ser Leu Phe Ser Lys Val Asn Gly Lys
 115 120 125
 Phe Ser Thr Glu Phe Gln Arg Met Lys Thr Leu Gln Val Lys Asp Gln
 130 135 140
 Ala Ile Thr Thr Arg Val Gln Val Arg Asn Leu Val Tyr Thr Val Lys
 145 150 155 160
 Ile Asn Pro Thr Leu Glu Leu Ser Ser Gly Phe Arg
 165 170 172

<210> 1803
 <211> 158
 <212> PRT
 <213> Homo sapiens

<400> 1803
 Met Ser Leu Arg Leu Gly Pro Ala Trp Arg His Leu Thr Cys Leu Gly
 1 5 10 15
 Thr Lys His Ser Lys Ala Asn Ser Val Leu Ala Ser Gln His Ala Gly
 20 25 30
 Phe Phe Val Ala Gln Gly Arg Trp Ala Ile His Arg Ala Phe Ser Ser
 35 40 45
 Arg Thr Ser Pro Thr Pro Pro Arg Gly Pro Leu Leu Leu Pro Gly Arg
 50 55 60
 His Pro Leu Leu Ser Arg Arg Arg Ala Gln Ala Ile Arg Ser Ser Thr
 65 70 75 80
 Arg Pro Ser Leu Pro Ala His Leu Phe Lys Pro Ala Pro Ala Ile Ala
 85 90 95
 Leu Ile Val Ser Pro Leu Arg Phe Pro Arg Arg Thr Ser Pro Cys His
 100 105 110
 Leu Ser Gly Pro Pro Ala Pro Pro Cys Arg Thr Leu His Thr Leu Leu
 115 120 125
 Arg Pro Val Cys Val Val Arg Arg Thr Pro Pro Val Phe Phe Thr Ser
 130 135 140
 Phe Thr Pro Ala Arg Ala Ala Val Ala Ser His Pro Thr Pro
 145 150 155 158

<210> 1804
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1804
 Met Gly Leu Gly Gln Pro Gln Ala Trp Leu Leu Gly Leu Pro Thr Ala
 1 5 10 15
 Val Val Tyr Gly Ser Leu Ala Leu Phe Thr Thr Ile Leu His Asn Val
 20 25 30
 Phe Leu Leu Tyr Tyr Val Asp Thr Phe Val Ser Val Tyr Lys Ile Asn
 35 40 45
 Lys Met Ala Phe Trp Val Gly Glu Thr Val Phe Leu Leu Trp Asn Ser
 50 55 60
 Leu Asn Asp Pro Leu Phe Gly Trp Leu Ser Asp Arg Gln Phe Leu Ser
 65 70 75 80
 Ser Gln Pro Arg Ser Gly Ala Gly Leu Ser Ser Arg Ala Val Val Leu
 85 90 95
 Ala Arg Val Gln Ala Leu
 100 102

<210> 1805
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1805
 Met Ala Asp Ser Val Leu Thr Leu Val Phe Thr Ser Cys Leu Leu Ser
 1 5 10 15
 Glu Leu Ser Leu Val Cys Ser Asp Phe Arg Pro Thr Pro Ile Ser Tyr
 20 25 30
 Gln Ser Arg Tyr Gly Ser Gly Asp Gly Trp Ile Arg Cys Lys Ser Glu
 35 40 45
 Val Arg Glu Thr Gln *
 50 53

<210> 1806
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1806
 Met Leu Ser Val Lys Arg Phe Arg Ala Met Val Met Phe Phe Met Ala
 1 5 10 15
 Met Val Ala Met Met Lys Asn Lys Cys Gln Gln Thr Asn Glu Ala Lys
 20 25 30
 Phe Cys Val His Met Tyr Leu His Phe Tyr Phe Ser Ser His Ser Ser
 35 40 45
 Ala Val Cys Ile Ser Ser Pro Leu
 50 55 56

<210> 1807
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1807
 Met Gln Ser Met Ile Asn Met Ile Val Ser Leu Leu Gly Leu Val Ala
 1 5 10 15
 Thr Val Thr Leu Ile Pro Ala Phe Arg Gly His Phe Ile Ala Ala Arg
 20 25 30
 Leu Gly Gly Gln Ser Leu Gly Lys Thr Ser Arg Gln His Met *
 35 40 45 46

<210> 1808
 <211> 119
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Ala Ala Ser Leu Leu Ala Val Leu Leu Leu Leu Leu Leu Glu Arg
 1 5 10 15
 Gly Met Phe Ser Ser Pro Ser Pro Pro Pro Ala Leu Leu Glu Lys Val
 20 25 30
 Phe Gln Tyr Ile Asp Leu His Gln Asp Glu Phe Val Gln Thr Leu Lys
 35 40 45
 Glu Trp Val Ala Ile Glu Ser Asp Ser Val Gln Pro Val Pro Arg Phe
 50 55 60
 Arg Gln Glu Leu Phe Arg Met Met Ala Val Ala Ala Asp Thr Leu Gln
 65 70 75 80
 Arg Leu Gly Ala Arg Val Ala Ser Val Asp Met Gly Pro Gln Gln Leu
 85 90 95
 Pro Asp Gly Gln Ser Leu Pro Ile Pro Pro Val Ile Leu Ala Glu Leu
 100 105 110
 Gly Ser Asp Pro Thr Lys Gly
 115 119

<210> 1809
 <211> 91
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Met Ser Arg Ser His Val Ala Leu Leu Gly Leu Ser Leu Leu Leu Met
 1 5 10 15
 Leu Leu Leu Tyr Ala Gly Leu Pro Ser Pro Pro Glu Gln Thr Ser Cys
 20 25 30
 Leu Trp Gly Asp Pro Asn Val Thr Val Leu Ala Val Ser Thr Pro Ala
 35 40 45
 Asn Ser Pro Met Phe Tyr Leu Glu Gly Leu Pro Leu His Leu Ala His

```

      50              55              60
Arg Val Asp Val Ile Pro Leu Ser Ser Leu Gly Pro Leu Val Ser Pro
 65              70              75              80
Leu Arg Cys Gln Ala Leu Pro Pro Arg Leu Ser
      85              90  91

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<210> 1810
<211> 58
<212> PRT
<213> Homo sapiens

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      <400> 1810
Met Leu Leu Phe Gly Leu Cys Trp Gly Pro Tyr Val Ala Thr Leu Leu
 1              5              10              15
Leu Ser Val Leu Ala Tyr Glu Gln Arg Pro Pro Leu Gly Pro Gly Thr
      20              25              30
Leu Leu Ser Leu Leu Ser Leu Gly Ser Ala Lys Ala Ala Ala Val Pro
      35              40              45
Val Ala Met Gly Leu Gly Asp Gln Arg Tyr
      50              55              58

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<210> 1811
<211> 48
<212> PRT
<213> Homo sapiens

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      <400> 1811
Met Ala Ser Ala Ser Phe Ser Leu Leu Ile Cys Gly Phe Leu Ala Ser
 1              5              10              15
Leu Ser Leu Gln Arg Ile Glu Glu Leu Gly Leu Gly Leu Gly Leu Gly
      20              25              30
Phe Gly Leu Arg Glu Cys Cys Gly Trp Phe Gly Leu Leu Ser Leu Val
      35              40              45              48

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<210> 1812
<211> 84
<212> PRT
<213> Homo sapiens

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      <400> 1812
Met Lys Val Leu Leu Ala Val Ala Leu Ile Ala Arg Thr Val Phe Phe
 1              5              10              15
Leu Leu Leu Ala Gly Pro Ser Ala Ala Asp Asp Lys Lys Lys Gly Pro
      20              25              30
Lys Val Thr Val Lys Val Tyr Phe Asp Leu Arg Ile Gly Asp Glu Asp
      35              40              45
Val Arg Arg Glu Ile Phe Gly Leu Phe Gly Lys Thr Ala Pro Lys Thr
      50              55              60

```

Glu Asp Asn Phe Val Ala Leu Ala Thr Gly Gln Lys Gly Phe Gly Tyr
 65 70 75 80
 Lys Asn Ser *
 83

<210> 1813
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Ala Ala Ala Asp Asp Thr Ile Leu Gly Phe Arg Ala Ala Leu Leu
 1 5 10 15
 Ile Leu Val Ala Ala Ala Ala Leu Ser Pro Lys Val Ala Cys Arg
 20 25 30
 Val Gly Thr Val Arg Arg Arg Glu Thr Pro Gln Pro Ser Ala
 35 40 45 46

<210> 1814
 <211> 65
 <212> PRT
 <213> Homo sapiens

<400> 1814
 Met Ile Ile Tyr Leu Thr Phe Pro Val Ala Met Phe Trp Val Ser Asn
 1 5 10 15
 Gln Ala Glu Trp Phe Glu Asp Asp Val Ile Gln Arg Lys Arg Glu Leu
 20 25 30
 Trp Pro Pro Glu Lys Leu Gln Glu Ile Glu Glu Phe Lys Glu Arg Leu
 35 40 45
 Arg Lys Arg Arg Glu Glu Lys Leu Leu Arg Asp Ala Gln Gln Asn Ser
 50 55 60 64
 *

<210> 1815
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1815
 Met Phe Lys Ser Lys Leu Leu Asn Phe Tyr Ile Phe Val Asn Cys Met
 1 5 10 15
 Asn Phe Leu Met Leu Ser Ile Ala Ser Phe Asn Pro Phe Trp Ser Glu
 20 25 30
 Ile Ile Val Cys Asn Ile Gln Phe Phe Tyr Tyr Thr Leu Ser Ser Arg
 35 40 45
 Val His Val Gln Asn Val Gln Val Cys Tyr Thr Gly Ile His Val Pro
 50 55 60
 Cys Trp Phe Ala Ala Pro Ile Asn Ser Ser Phe Thr Leu Gly Ile Ser

```

      65              70              75              80
Pro Asn Ala Ile Pro Phe Ile Val Pro His Pro Gln Thr Gly Pro Asn
      85              90              95
Val Arg Cys Ser
      100

```

```

<210> 1816
<211> 115
<212> PRT
<213> Homo sapiens

<221> misc_feature
<222> (1)...(115)
<223> Xaa = any amino acid or nothing

```

```

<400> 1816
Met Phe Cys Phe Leu Val Ser Val Leu Tyr Ser Lys Ala Lys Leu Ala
 1              5              10              15
Ser Ala Cys Gly Gly Ile Ile Tyr Phe Leu Ser Tyr Val Pro Tyr Met
      20              25              30
Tyr Val Ala Ile Arg Glu Glu Val Ala His Asp Lys Ile Thr Ala Phe
      35              40              45
Glu Lys Cys Ile Ala Ser Leu Met Ser Thr Thr Ala Phe Gly Leu Gly
      50              55              60
Ser Lys Tyr Phe Ala Leu Tyr Glu Val Pro Gly Val Gly Ile Gln Trp
      65              70              75              80
His Thr Phe Ser Gln Ser Pro Val Glu Gly Glu Asp Leu Asn Leu Pro
      85              90              95
Pro Pro Pro Pro Met Met Pro Ala Pro Xaa Val Val Tyr Gly Ile Leu
      100              105              110
Thr Lys *
      114

```

```

<210> 1817
<211> 144
<212> PRT
<213> Homo sapiens

```

```

<400> 1817
Met Val Leu Gly Leu Leu Val Gln Ile Trp Ala Leu Gln Glu Ala Ser
 1              5              10              15
Ser Leu Ser Val Gln Gln Gly Pro Asn Leu Leu Gln Val Arg Gln Gly
      20              25              30
Ser Gln Ala Thr Leu Val Cys Gln Val Asp Gln Ala Thr Ala Trp Glu
      35              40              45
Arg Leu Arg Val Lys Trp Thr Lys Asp Gly Ala Ile Leu Cys Gln Pro
      50              55              60
Tyr Ile Thr Asn Gly Ser Leu Ser Leu Gly Val Cys Gly Pro Gln Gly
      65              70              75              80
Arg Leu Ser Trp Gln Ala Pro Ser His Leu Thr Leu Gln Leu Asp Pro
      85              90              95
Val Ser Leu Asn His Ser Gly Ala Tyr Val Cys Trp Ala Ala Val Glu
      100              105              110

```

```

Ile Pro Glu Leu Glu Glu Ala Glu Gly Asn Ile Thr Arg Leu Phe Val
      115              120              125
Asp Pro Asp Asp Pro Thr Gln Asn Arg Asn Arg Ile Ala Ser Phe Pro
      130              135              140              144

```

```

<210> 1818
<211> 115
<212> PRT
<213> Homo sapiens

```

```

<400> 1818
Met Gln Ala Asp Arg Gly Gly Val Leu Phe Leu Val Ala Leu Pro Gly
  1              5              10              15
Leu Trp Glu Thr Val Leu Arg His Pro Gly Ala Ser Pro Glu Pro Val
      20              25              30
Ser Leu His Thr Gly Leu Ala Ala Glu Pro Leu Leu Gly Trp Arg Ala
      35              40              45
Glu Val Ala Thr Ala Ala Gly Leu Gln Asp Arg Arg Ile Gly Arg Arg
      50              55              60
Ser Leu Pro Ala Thr Leu Pro Pro Pro Phe Pro Gln Ala Gly Asp Leu
      65              70              75              80
Arg Glu Ser Ile Leu Leu Leu Pro Cys Arg Glu Ser Arg Ser Thr Ser
      85              90              95
Trp Leu Ser Pro Tyr Trp Val Pro Glu Ile Pro Gly Thr Leu His Asp
      100              105              110
Arg Gly Arg
      115

```

```

<210> 1819
<211> 70
<212> PRT
<213> Homo sapiens

```

```

<400> 1819
Met Pro Trp Leu Leu Ser Ala Pro Lys Leu Val Pro Ala Val Ala Asn
  1              5              10              15
Val Arg Gly Leu Ser Gly Cys Met Leu Cys Ser Gln Arg Arg Tyr Ser
      20              25              30
Leu Gln Pro Val Pro Glu Arg Arg Ile Pro Asn Arg Tyr Leu Gly Gln
      35              40              45
Pro Ser Pro Phe Thr His Pro His Leu Leu Arg Pro Asp Ser Asn Ser
      50              55              60
Cys Trp Glu Val Gly *
      65              69

```

```

<210> 1820
<211> 635
<212> PRT
<213> Homo sapiens

```

<400> 1820

Met	Leu	Arg	Ser	Leu	Leu	Val	Tyr	Met	Leu	Phe	Leu	Leu	Val	Thr	Leu
1				5					10					15	
Leu	Ala	Ser	Tyr	Gly	Asp	Ala	Ser	Cys	His	Gly	His	Ala	Tyr	Arg	Leu
			20					25					30		
Gln	Ser	Ala	Ile	Lys	Gln	Glu	Leu	His	Ser	Arg	Ala	Phe	Leu	Ala	Ile
		35					40					45			
Thr	Arg	Ser	Glu	Glu	Leu	Trp	Pro	Trp	Met	Ala	His	Val	Leu	Leu	Pro
	50					55						60			
Tyr	Val	His	Gly	Asn	Gln	Ser	Ser	Pro	Glu	Leu	Gly	Pro	Pro	Arg	Leu
65					70					75					80
Arg	Gln	Val	Arg	Leu	Gln	Glu	Ala	Leu	Tyr	Pro	Asp	Pro	Pro	Gly	Pro
				85					90					95	
Arg	Val	His	Thr	Cys	Ser	Ala	Ala	Gly	Gly	Phe	Ser	Thr	Ser	Asp	Tyr
			100					105						110	
Asp	Val	Gly	Trp	Glu	Ser	Pro	His	Asn	Gly	Ser	Gly	Thr	Trp	Ala	Tyr
	115						120					125			
Ser	Ala	Pro	Asp	Leu	Leu	Gly	Ala	Trp	Ser	Trp	Gly	Ser	Cys	Ala	Val
130						135					140				
Tyr	Asp	Ser	Gly	Gly	Tyr	Val	Gln	Glu	Leu	Gly	Leu	Ser	Leu	Glu	Glu
145					150					155					160
Ser	Arg	Asp	Arg	Leu	Arg	Phe	Leu	Gln	Leu	His	Asn	Trp	Leu	Asp	Asn
				165					170					175	
Arg	Ser	Arg	Ala	Val	Phe	Leu	Glu	Leu	Thr	Arg	Tyr	Ser	Pro	Ala	Val
			180						185					190	
Gly	Leu	His	Ala	Ala	Val	Thr	Leu	Arg	Leu	Glu	Phe	Pro	Ala	Ala	Gly
	195						200					205			
Arg	Ala	Leu	Ala	Ala	Leu	Ser	Val	Arg	Pro	Phe	Ala	Leu	Arg	Arg	Leu
210						215					220				
Ser	Ala	Gly	Leu	Ser	Leu	Pro	Leu	Leu	Thr	Ser	Val	Cys	Leu	Leu	Leu
225					230						235				240
Phe	Ala	Val	His	Phe	Ala	Val	Ala	Glu	Ala	Arg	Thr	Trp	His	Arg	Glu
				245					250					255	
Gly	Arg	Trp	Arg	Val	Leu	Arg	Leu	Gly	Ala	Trp	Ala	Arg	Trp	Leu	Leu
		260						265					270		
Val	Ala	Leu	Thr	Ala	Ala	Thr	Ala	Leu	Val	Arg	Leu	Ala	Gln	Leu	Gly
	275						280						285		
Ala	Ala	Asp	Arg	Gln	Trp	Thr	Arg	Phe	Val	Arg	Gly	Arg	Pro	Arg	Arg
290						295					300				
Phe	Thr	Ser	Phe	Asp	Gln	Val	Ala	His	Val	Ser	Ser	Ala	Ala	Arg	Gly
305					310						315				320
Leu	Ala	Ala	Ser	Leu	Leu	Phe	Leu	Leu	Leu	Val	Lys	Ala	Ala	Gln	His
				325					330					335	
Val	Arg	Phe	Val	Arg	Gln	Trp	Ser	Val	Phe	Gly	Lys	Thr	Leu	Cys	Arg
			340						345					350	
Ala	Leu	Pro	Glu	Leu	Leu	Gly	Val	Thr	Leu	Gly	Leu	Val	Val	Leu	Gly
	355					360						365			
Val	Ala	Tyr	Ala	Gln	Leu	Ala	Ile	Leu	Leu	Val	Ser	Ser	Cys	Val	Asp
	370					375						380			
Ser	Leu	Trp	Ser	Val	Ala	Gln	Ala	Leu	Leu	Val	Leu	Cys	Pro	Gly	Thr
385					390						395				400
Gly	Leu	Ser	Thr	Leu	Cys	Pro	Ala	Glu	Ser	Trp	His	Leu	Ser	Pro	Leu
				405					410					415	
Leu	Cys	Val	Gly	Leu	Trp	Ala	Leu	Arg	Leu	Trp	Gly	Ala	Leu	Arg	Leu
			420					425					430		
Gly	Ala	Val	Ile	Leu	Arg	Trp	Arg	Tyr	His	Ala	Leu	Arg	Gly	Glu	Leu
	435						440						445		

```

Tyr Arg Pro Ala Trp Glu Pro Gln Asp Tyr Glu Met Val Glu Leu Phe
 450          455          460
Leu Arg Arg Leu Arg Leu Trp Met Gly Leu Ser Lys Val Lys Glu Phe
465          470          475          480
Arg His Lys Val Arg Phe Glu Gly Met Glu Pro Leu Pro Ser Arg Ser
      485          490          495
Ser Arg Gly Ser Lys Val Ser Pro Asp Val Pro Pro Pro Ser Ala Gly
      500          505          510
Ser Asp Ala Ser His Pro Ser Thr Ser Ser Ser Gln Leu Asp Gly Leu
      515          520          525
Ser Val Ser Leu Gly Arg Leu Gly Thr Arg Cys Glu Pro Glu Pro Ser
530          535          540
Arg Leu Gln Ala Val Phe Glu Ala Leu Leu Thr Gln Phe Asp Arg Leu
545          550          555          560
Asn Gln Ala Thr Glu Asp Val Tyr Gln Leu Glu Gln Gln Leu His Ser
      565          570          575
Leu Gln Gly Arg Arg Ser Ser Arg Ala Pro Ala Gly Ser Ser Arg Gly
      580          585          590
Pro Ser Pro Gly Leu Arg Pro Ala Leu Pro Ser Arg Leu Ala Arg Ala
      595          600          605
Ser Arg Gly Val Asp Leu Ala Thr Gly Pro Ser Arg Thr Pro Leu Arg
610          615          620
Ala Lys Asn Lys Val His Pro Ser Ser Thr *
625          630          634

```

```

<210> 1821
<211> 84
<212> PRT
<213> Homo sapiens

```

```

<400> 1821
Met Gly Ser Thr Trp Gly Ser Pro Gly Trp Val Arg Leu Ala Leu Cys
 1          5          10          15
Leu Thr Gly Leu Met Leu Ser Leu Tyr Thr Leu His Val Lys Ala Ala
      20          25          30
Arg Ala Arg Asn Arg Asp Tyr Arg Ala Leu Cys Asp Val Gly Thr Val
      35          40          45
Ile Ser Cys Thr Arg Val Phe Tyr Ser Lys Leu Pro Ala Asp Thr Leu
      50          55          60
Asp Leu Cys Pro Asp Ala Ala Glu Leu Pro Gly Val Ser Arg Trp Phe
65          70          75          80
Cys Leu Pro Gly
      84

```

```

<210> 1822
<211> 108
<212> PRT
<213> Homo sapiens

```

```

<400> 1822
Met Ala Leu Asp Phe Val Asn Val Leu Leu Cys Gln Leu Ala Glu Val
 1          5          10          15
Thr Leu Gly Val Leu Arg Glu Glu Gly Ala Ser Leu Leu Val Ala Leu

```



```

      20      25      30
Gly Ser Ala Leu Phe Pro Ser Ala Ala Val Gly Lys Gln Gly Ser
      35      40      45
Met Gly Val Thr Ser His Met Gln Cys Pro Val Cys Gln His Pro Arg
      50      55      60
Asp Val Leu Leu Ala Ser Pro Val Ser His Ser His Ala Cys Gln Pro
      65      70      75      80
Gln Pro Ala Gly Cys Ser Asn Cys His Leu Gly His Leu Thr Arg Ser
      85      90      95
Pro Pro Phe Gln Gly Leu Leu Pro Leu Leu Gln *
      100      105      107

```

<210> 1823

<211> 74

<212> PRT

<213> Homo sapiens

<400> 1823

```

Met Gly Val Val Leu Tyr Val Met Leu Cys Ala Ser Leu Pro Phe Asp
 1      5      10      15
Asp Thr Asp Ile Pro Lys Met Leu Trp Gln Gln Gln Lys Gly Val Ser
      20      25      30
Phe Pro Thr His Leu Ser Ile Ser Ala Asp Cys Gln Asp Leu Leu Lys
      35      40      45
Arg Leu Leu Glu Pro Asp Met Ile Leu Arg Pro Ser Ile Glu Glu Val
      50      55      60
Ser Trp His Pro Trp Leu Ala Ser Thr *
      65      70      73

```

<210> 1824

<211> 58

<212> PRT

<213> Homo sapiens

<400> 1824

```

Met Ser Leu Ser Cys Thr Gly Phe Ala Leu Glu Lys Arg Cys Ala Gly
 1      5      10      15
Trp Val Trp Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Gly Gly Gln
      20      25      30
Gly Arg Gln Ile Met Ile Met Val Arg Ser Leu Arg Pro Ala Gly Pro
      35      40      45
Thr Trp Gly Asn Leu Ser Thr Thr Lys Thr
      50      55      58

```

<210> 1825

<211> 225

<212> PRT

<213> Homo sapiens

<400> 1825

```

Met Ala Cys Lys Gly Leu Leu Gln Gln Val Gln Gly Pro Arg Leu Pro
 1      5      10      15
Trp Thr Arg Leu Leu Leu Leu Leu Val Phe Ala Val Gly Phe Leu
      20      25      30
Cys His Asp Leu Arg Ser His Ser Ser Phe Gln Ala Ser Leu Thr Gly
      35      40      45
Arg Leu Leu Arg Ser Ser Gly Phe Leu Pro Ala Ser Gln Gln Ala Cys
      50      55      60
Ala Lys Leu Tyr Ser Tyr Ser Leu Gln Gly Tyr Ser Trp Leu Gly Glu
      65      70      75      80
Thr Leu Pro Leu Trp Gly Ser His Leu Leu Thr Val Val Arg Pro Ser
      85      90      95
Leu Gln Leu Ala Trp Ala His Thr Asn Ala Thr Val Ser Phe Leu Ser
      100      105      110
Ala His Cys Ala Ser His Leu Ala Trp Phe Gly Asp Ser Leu Thr Ser
      115      120      125
Leu Ser Gln Arg Leu Gln Ile Gln Leu Pro Asp Ser Val Asn Gln Leu
      130      135      140
Leu Arg Tyr Leu Arg Glu Leu Pro Leu Leu Phe His Gln Asn Val Leu
      145      150      155      160
Leu Pro Leu Trp His Leu Leu Leu Glu Ala Leu Ala Trp Ala Gln Glu
      165      170      175
His Cys His Glu Ala Cys Arg Gly Glu Val Thr Trp Asp Cys Met Lys
      180      185      190
Thr Gln Leu Ser Glu Ala Val His Trp Thr Trp Leu Cys Leu Gln Asp
      195      200      205
Ile Thr Val Ala Phe Leu Asp Trp Ala Leu Ala Leu Ile Ser Gln Gln
      210      215      220      224
*
```

```

<210> 1826
<211> 119
<212> PRT
<213> Homo sapiens
```

```

<400> 1826
Met Tyr Arg Glu Val Cys Ser Ile Arg Phe Leu Phe Thr Ala Val Ser
 1      5      10      15
Leu Leu Ser Leu Phe Leu Ser Ala Phe Trp Leu Gly Leu Leu Tyr Leu
      20      25      30
Val Ser Pro Leu Glu Asn Glu Pro Lys Glu Met Leu Thr Leu Ser Glu
      35      40      45
Tyr His Glu Arg Ala Arg Ser Gln Gly Gln Gln Leu Leu Gln Phe Gln
      50      55      60
Ala Glu Leu Asp Lys Leu His Lys Glu Ala Ser Leu Val Cys Gly Cys
      65      70      75      80
Pro Ser Leu Arg Glu Val Pro Ser Ser Ala Val Ser Arg Leu Glu Pro
      85      90      95
Pro Ser Ile Ala Gln Pro Leu Leu Ser Arg Leu Gln Leu Tyr Leu Ser
      100      105      110
Asp Pro Ser Ser Tyr Leu Val
      115      119
```

<210> 1827
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1827
 Met Lys Leu Met Arg Pro Leu Met Leu Leu Tyr Ile Ser Gln Leu Tyr
 1 5 10 15
 Met Leu Met Lys Arg Asn Ser Pro His Ile Gly Asp Cys Leu Ser Leu
 20 25 30
 Leu Phe Leu Gln Glu Lys Lys Gln Lys Glu Val Tyr Thr Leu Leu Ala
 35 40 45
 Met Met Gln Val Ser Phe Ile Leu Val *
 50 55 57

<210> 1828
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1828
 Met Gln Pro Ser Gly Leu Glu Gly Pro Gly Thr Phe Gly Arg Trp Pro
 1 5 10 15
 Leu Leu Ser Leu Leu Leu Leu Leu Leu Leu Gln Pro Val Thr Cys
 20 25 30
 Ala Tyr Thr Thr Pro Gly Pro Pro Arg Ala Leu Thr Thr Leu Gly Ala
 35 40 45
 Pro Arg Ala His Thr Met Pro Gly Thr Tyr Ala Pro Ser Thr Thr Leu
 50 55 60
 Ser Ser Pro Ser Thr Gln Gly Leu Gln Glu Gln Ala Arg Ala Leu Met
 65 70 75 80
 Arg Asp Phe Pro Leu Val Asp Gly His Asn Asp Leu Pro Leu Val Leu
 85 90 95
 Arg Gln Val Tyr His Asn
 100 102

<210> 1829
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1829
 Met Arg Lys Ile Tyr Thr Thr Val Leu Phe Ala Asn Ile Tyr Leu Ala
 1 5 10 15
 Pro Leu Ser Leu Ile Val Ile Met Tyr Gly Arg Ile Gly Ile Ser Leu
 20 25 30
 Phe Arg Ala Ala Val Pro His Thr Gly Arg Lys Asn Gln Glu Gln Trp
 35 40 45
 His Val Val Ser Arg Lys Lys Gln Lys Ile Ile Lys Met Leu Leu Ile
 50 55 60
 Val Ala Leu Leu Phe Ile Leu Ser Trp Leu Pro Leu Trp Thr Leu Met
 65 70 75 80

Met Leu Ser Asp Tyr Ala Lys Pro
 85 88

<210> 1830
 <211> 120
 <212> PRT
 <213> Homo sapiens

<400> 1830
 Met Lys Trp Arg Arg Lys Ser Ala Tyr Trp Lys Ala Leu Lys Val Phe
 1 5 10 15
 Lys Leu Pro Val Glu Phe Leu Leu Leu Leu Thr Val Pro Val Val Asp
 20 25 30
 Pro Asp Lys Asp Asp Gln Asn Trp Lys Arg Pro Leu Asn Cys Leu His
 35 40 45
 Leu Val Ile Ser Pro Leu Val Val Val Leu Thr Leu Gln Ser Gly Thr
 50 55 60
 Tyr Gly Val Tyr Glu Ile Gly Gly Leu Val Pro Val Trp Val Val Val
 65 70 75 80
 Val Ile Ala Gly Thr Ala Leu Ala Ser Val Thr Phe Phe Ala Thr Ser
 85 90 95
 Asp Ser Gln Pro Pro Arg Leu His Trp Leu Phe Ala Phe Leu Gly Phe
 100 105 110
 Leu Thr Ser Ala Leu Trp Ile Asn
 115 120

<210> 1831
 <211> 64
 <212> PRT
 <213> Homo sapiens

<400> 1831
 Met Phe Trp Arg Gly Trp Gly Ala Pro Leu Trp Ala Trp Pro Thr Leu
 1 5 10 15
 Leu Thr Pro Ile Lys Cys Ser Ser Leu Tyr Asp Ser Phe Phe Ser Pro
 20 25 30
 Thr Asp Ala Leu Gly Leu Glu Ser Leu Leu Gly Thr Ala Ser Leu Trp
 35 40 45
 Pro Leu Leu Leu Ser Leu Thr Glu Leu Pro Ala Leu Leu Gln Met *
 50 55 60 63

<210> 1832
 <211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1832
 Met Gly Ile Lys His Phe Ser Gly Leu Phe Val Leu Leu Cys Ile Gly
 1 5 10 15
 Phe Gly Leu Ser Ile Leu Thr Thr Ile Gly Glu His Ile Val Tyr Arg

```

      20      25      30
Leu Leu Leu Pro Arg Ile Lys Asn Lys Ser Lys Leu Gln Tyr Trp Leu
      35      40      45
His Thr Ser Gln Arg Leu His Arg Ala Ile Asn Thr Ser Phe Ile Glu
      50      55      60
Glu Lys Gln Gln His Phe Lys Thr Lys Arg Val Glu Lys Arg Ser Asn
      65      70      75      80
Val Gly Pro Arg Gln Leu Thr Val Trp
      85      89

```

<210> 1833
 <211> 60
 <212> PRT
 <213> Homo sapiens

```

      <400> 1833
Met Phe Leu Val Ser Ile Ile Cys Val Thr Leu Phe Phe Pro Ile Val
  1      5      10      15
Ala Leu Phe Asp Leu Tyr Ala Thr Leu Ala His Cys Val Tyr Ala Phe
      20      25      30
Ser Thr Asp Ser Leu Leu Pro Ala Val Met Leu Thr Ala Leu Pro Arg
      35      40      45
Ser Leu Phe Phe Ser Ser Ser Leu Ile Leu Ser Ser
      50      55      60

```

<210> 1834
 <211> 62
 <212> PRT
 <213> Homo sapiens

```

      <400> 1834
Met Val Pro Ala Ala Gly Ala Leu Leu Trp Val Leu Leu Leu Asn Leu
  1      5      10      15
Gly Pro Arg Ala Ala Gly Ala Gln Gly Leu Thr Gln Thr Pro Thr Glu
      20      25      30
Met Gln Arg Val Met Leu Arg Phe Gly Cys Ser Val Ile Cys Cys Tyr
      35      40      45
Cys Ile Ser Val Arg Thr Gly Arg Ser Arg Glu Thr Gly *
      50      55      60      61

```

<210> 1835
 <211> 71
 <212> PRT
 <213> Homo sapiens

```

      <400> 1835
Met Leu Leu Lys Ile Leu Lys Gly Cys Val Val Phe His His Leu Pro
  1      5      10      15
Cys Ser Thr Gln Val Tyr Lys Pro Ser Leu Gly Met Trp Gly Phe Leu
      20      25      30

```

```

Ser Pro Leu Trp Glu Val Val Phe Cys His Thr Pro Cys Phe Arg Ala
      35              40              45
Gln Pro Gln Leu Asp Arg Ala Gly Ser Ser Phe Leu Ile Tyr Pro Ser
      50              55              60
Pro His Ser Thr Ser Asn *
      65              70

```

```

<210> 1836
<211> 110
<212> PRT
<213> Homo sapiens

```

```

<400> 1836
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
 1              5              10              15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
      20              25              30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met Gly Ala
      35              40              45
Ser Met His Leu Arg Thr Pro Phe Thr Tyr Arg Val Pro Glu Asp Thr
      50              55              60
Trp Gly Cys Phe Phe Val Cys Asn Leu Leu Tyr Ala Leu Gly Pro His
      65              70              75              80
Leu Leu Ala Tyr Arg Cys Leu Gln Trp Pro Ala Phe Phe His Gln Pro
      85              90              95
Pro Pro Ser Asp Pro Leu Ala Leu His Lys Lys Gln His *
      100              105              109

```

```

<210> 1837
<211> 91
<212> PRT
<213> Homo sapiens

```

```

<400> 1837
Met Leu Leu Leu Leu Thr Trp Pro Tyr Ile Leu Leu Gly Phe Leu Phe
 1              5              10              15
Cys Ala Phe Val Val Val Asn Gly Gly Ile Val Ile Gly Asp Arg Ser
      20              25              30
Ser His Glu Ala Cys Leu His Phe Pro Gln Leu Phe Tyr Phe Phe Ser
      35              40              45
Phe Thr Leu Phe Phe Ser Phe Pro His Leu Leu Ser Pro Ser Lys Ile
      50              55              60
Lys Thr Phe Leu Ser Leu Val Trp Lys Arg Arg Ile Leu Phe Phe Val
      65              70              75              80
Val Thr Leu Val Ser Val Phe Leu Val Trp Asn
      85              90              91

```

```

<210> 1838
<211> 201
<212> PRT
<213> Homo sapiens

```

<400> 1838

```

Met Pro Ile Gly Leu Arg Gly Leu Met Ile Ala Val Met Leu Ala Ala
 1           5           10           15
Leu Met Ser Ser Leu Thr Ser Ile Phe Asn Ser Ser Ser Thr Leu Phe
           20           25           30
Thr Met Asp Ile Trp Arg Arg Leu Arg Pro Arg Ser Gly Glu Arg Glu
           35           40           45
Leu Leu Leu Val Gly Arg Leu Val Ile Val Ala Leu Ile Gly Val Ser
           50           55           60
Val Ala Trp Ile Pro Val Leu Gln Asp Ser Asn Ser Gly Gln Leu Phe
           65           70           75           80
Ile Tyr Met Gln Ser Val Thr Ser Ser Leu Ala Pro Pro Val Thr Ala
           85           90           95
Val Phe Val Leu Gly Val Phe Trp Arg Arg Ala Asn Glu Gln Gly Ala
           100          105          110
Phe Trp Gly Leu Ile Ala Gly Leu Val Val Gly Ala Thr Arg Leu Val
           115          120          125
Leu Glu Phe Leu Asn Pro Ala Pro Pro Cys Gly Glu Pro Asp Thr Arg
           130          135          140
Pro Ala Val Leu Gly Ser Ile His Tyr Leu His Phe Ala Val Ala Leu
145           150           155           160
Phe Ala Leu Ser Gly Ala Val Val Val Ala Gly Ser Leu Leu Thr Pro
           165           170           175
Pro Pro Gln Ser Val Gln Ile Glu Asn Leu Thr Trp Trp Thr Leu Ala
           180          185           190
Gln Asp Val Pro Leu Gly Thr Lys Ala
           195           200 201

```

<210> 1839

<211> 130

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(130)

<223> Xaa = any amino acid or nothing

<400> 1839

```

Met Leu Phe Phe Leu Gln Ser Leu Phe Met Leu Ala Thr Val Val Leu
 1           5           10           15
Tyr Phe Ser His Leu Lys Glu Tyr Val Ala Ser Met Val Phe Ser Leu
           20           25           30
Ala Leu Gly Trp Thr Asn Met Leu Tyr Tyr Thr Arg Gly Phe Gln Gln
           35           40           45
Met Gly Ile Tyr Ala Val Met Ile Glu Lys Met Ile Leu Arg Asp Leu
           50           55           60
Cys Arg Phe Met Phe Val Tyr Ile Val Phe Leu Phe Gly Phe Ser Thr
           65           70           75           80
Ala Val Val Thr Leu Ile Glu Asp Gly Lys Asn Asp Ser Leu Pro Ser
           85           90           95
Glu Ser Thr Ser His Arg Trp Arg Gly Phe Ser Xaa Thr Pro Leu Xaa
           100          105          110
Leu Leu His Lys Leu Tyr Ser Thr Cys Leu Glu Leu Ser Asn Ser Thr
           115          120          125

```

Xaa Asp
130

<210> 1840
<211> 47
<212> PRT
<213> Homo sapiens

<400> 1840
Met Asn Arg Val Met Arg Gly Leu Ala Ile Thr Thr Thr Cys Leu Leu
1 5 10 15
Ser Met Leu Gln Ala Ile Thr Ile Ser Pro Ser Ile Leu Trp Asn His
20 25 30
Ala Ala Val Gln Tyr Val His Gly His Ser Leu Val Gln Ala *
35 40 45 46

<210> 1841
<211> 82
<212> PRT
<213> Homo sapiens

<400> 1841
Met Thr Ala Arg Leu Met Arg Ser Leu Leu Ala Ala Gln Leu Thr Phe
1 5 10 15
Val Tyr Arg Val Ala His Leu Met Asn Val Ala Gln Arg Ile Arg Gly
20 25 30
Asn Arg Pro Ile Lys Asn Glu Arg Leu Leu Ala Leu Leu Gly Asp Asn
35 40 45
Glu Lys Met Asn Leu Ser Asp Val Glu Leu Ile Pro Leu Pro Leu Glu
50 55 60
Pro Gln Val Lys Ile Arg Gly Ile Ile Pro Glu Thr Ala Thr Leu Phe
65 70 75 80
Lys Ser
82

<210> 1842
<211> 77
<212> PRT
<213> Homo sapiens

<400> 1842
Met Val Ala Asn Met Phe Tyr Ile Val Val Ile Met Ala Leu Val Leu
1 5 10 15
Leu Ser Phe Gly Val Pro Arg Lys Ala Ile Leu Tyr Pro His Glu Ala
20 25 30
Pro Ser Trp Thr Leu Ala Lys Asp Ile Val Phe His Pro Tyr Trp Met
35 40 45
Ile Phe Gly Glu Val Tyr Ala Tyr Glu Ile Asp Val Cys Ala Asn Asp
50 55 60
Ser Val Ile Pro Gln Ile Cys Gly Pro Ser Thr Arg Pro

65 70 75 77

```
<210> 1843
<211> 109
<212> PRT
<213> Homo sapiens
```

<400> 1843															
Met	Met	His	Asn	Ile	Ile	Val	Lys	Glu	Leu	Ile	Val	Thr	Phe	Phe	Leu
1				5					10					15	
Gly	Ile	Thr	Val	Val	Gln	Met	Leu	Ile	Ser	Val	Thr	Gly	Leu	Lys	Gly
			20					25					30		
Val	Glu	Ala	Gln	Asn	Gly	Ser	Glu	Ser	Glu	Val	Phe	Val	Gly	Lys	Tyr
		35					40				45				
Glu	Thr	Leu	Val	Phe	Tyr	Trp	Pro	Ser	Leu	Leu	Cys	Leu	Ala	Phe	Leu
	50					55					60				
Leu	Gly	Arg	Phe	Leu	His	Met	Phe	Val	Lys	Ala	Leu	Arg	Val	His	Leu
65					70					75					80
Gly	Trp	Glu	Leu	Gln	Val	Glu	Glu	Lys	Ser	Val	Leu	Glu	Val	His	Gln
				85					90					95	
Gly	Glu	His	Val	Lys	Gln	Leu	Leu	Arg	Ile	Pro	Arg	Pro			
			100					105				109			

```
<210> 1844
<211> 85
<212> PRT
<213> Homo sapiens
```

```
<221> misc_feature
<222> (1)...(85)
<223> Xaa = any amino acid or nothing
```

[illegible]

```
<210> 1845
<211> 110
<212> PRT
<213> Homo sapiens
```

<400> 1845

```

Met Tyr Ala Leu Tyr Ile Thr Val His Gly Tyr Phe Leu Ile Thr Phe
 1           5           10           15
Leu Phe Gly Met Val Val Leu Ala Leu Val Val Trp Lys Ile Phe Thr
           20           25           30
Leu Ser Arg Ala Thr Ala Val Lys Glu Arg Gly Lys Asn Arg Lys Lys
           35           40           45
Val Leu Thr Leu Leu Gly Leu Ser Ser Leu Val Gly Val Thr Trp Gly
 50           55           60
Leu Ala Ile Phe Thr Pro Leu Gly Leu Ser Thr Val Tyr Ile Phe Ala
65           70           75           80
Leu Phe Asn Ser Leu Gln Gly Val Phe Ile Cys Cys Trp Phe Thr Ile
           85           90           95
Leu Tyr Leu Pro Ser Gln Ser Thr Thr Val Ser Ser Ser Thr
           100           105           110

```

<210> 1846

<211> 94

<212> PRT

<213> Homo sapiens

<400> 1846

```

Met Thr Glu Pro Pro Gly Ala Ser Ser His Leu Arg Gln Ala Leu Arg
 1           5           10           15
Cys Cys Gln Trp Leu Ala Gly Ile Pro Ser Gln Trp Val Leu Phe Trp
           20           25           30
Glu Val Leu Trp Lys Trp Val Leu Gln Thr Asp Ala Ala Trp Ser Pro
           35           40           45
Gly Phe Ser Pro Leu Pro Arg Gly Met Tyr Gln His Pro Ala Leu Pro
50           55           60
Glu Met Pro Ser Pro Phe Leu Gly Ile Leu Arg Leu Glu Tyr Val Lys
65           70           75           80
Leu Leu Gly Leu Cys Met Cys Leu Ser Thr Gly Ser Ser *
           85           90           93

```

<210> 1847

<211> 1300

<212> PRT

<213> Homo sapiens

<400> 1847

```

Met Ala Trp Lys Thr Leu Pro Ile Tyr Leu Leu Leu Leu Leu Ser Val
 1           5           10           15
Phe Val Ile Gln Gln Val Ser Ser Gln Asp Leu Ser Ser Cys Ala Gly
           20           25           30
Arg Cys Gly Glu Gly Tyr Ser Arg Asp Ala Thr Cys Asn Cys Asp Tyr
           35           40           45
Asn Cys Gln His Tyr Met Glu Cys Cys Pro Asp Phe Lys Arg Val Cys
50           55           60
Thr Ala Glu Leu Ser Cys Lys Gly Arg Cys Phe Glu Ser Phe Glu Arg
65           70           75           80
Gly Arg Glu Cys Asp Cys Asp Ala Gln Cys Lys Lys Tyr Asp Lys Cys

```

1013

Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro
 565 570 575
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 580 585 590
 Ala Pro Thr Thr Thr Lys Lys Pro Ala Pro Thr Ala Pro Lys Glu Pro
 595 600 605
 Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys Lys Leu
 610 615 620
 Thr Pro Thr Thr Pro Glu Lys Leu Ala Pro Thr Thr Pro Glu Lys Pro
 625 630 635 640
 Ala Pro Thr Thr Pro Glu Glu Leu Ala Pro Thr Thr Pro Glu Glu Pro
 645 650 655
 Thr Pro Thr Thr Pro Glu Glu Pro Ala Pro Thr Thr Pro Lys Ala Ala
 660 665 670
 Ala Pro Asn Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Pro
 675 680 685
 Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Glu Thr
 690 695 700
 Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr Thr Leu Lys Glu Pro
 705 710 715 720
 Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys Glu Leu Ala Pro Thr
 725 730 735
 Thr Thr Lys Glu Pro Thr Ser Thr Thr Ser Asp Lys Pro Ala Pro Thr
 740 745 750
 Thr Pro Lys Gly Thr Ala Pro Thr Thr Pro Lys Glu Pro Ala Pro Thr
 755 760 765
 Thr Pro Lys Glu Pro Ala Pro Thr Thr Pro Lys Gly Thr Ala Pro Thr
 770 775 780
 Thr Leu Lys Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Lys
 785 790 795 800
 Glu Leu Ala Pro Thr Thr Lys Gly Pro Thr Ser Thr Thr Ser Asp
 805 810 815
 Lys Pro Ala Pro Thr Thr Pro Lys Glu Thr Ala Pro Thr Thr Pro Lys
 820 825 830
 Glu Pro Ala Pro Thr Thr Pro Lys Lys Pro Ala Pro Thr Thr Pro Glu
 835 840 845
 Thr Pro Pro Pro Thr Thr Ser Glu Val Ser Thr Pro Thr Thr Thr Lys
 850 855 860
 Glu Pro Thr Thr Ile His Lys Ser Pro Asp Glu Ser Thr Pro Glu Leu
 865 870 875 880
 Ser Ala Glu Pro Thr Pro Lys Ala Leu Glu Asn Ser Pro Lys Glu Pro
 885 890 895
 Gly Val Pro Thr Thr Lys Thr Pro Ala Ala Thr Lys Pro Glu Met Thr
 900 905 910
 Thr Thr Ala Lys Asp Lys Thr Thr Glu Arg Asp Leu Arg Thr Thr Pro
 915 920 925
 Glu Thr Thr Thr Ala Ala Pro Lys Met Thr Lys Glu Thr Ala Thr Thr
 930 935 940
 Thr Glu Lys Thr Thr Glu Ser Lys Ile Thr Ala Thr Thr Thr Gln Val
 945 950 955 960
 Thr Ser Thr Thr Thr Gln Asp Thr Thr Pro Phe Lys Ile Thr Thr Leu
 965 970 975
 Lys Thr Thr Thr Leu Ala Pro Lys Val Thr Thr Thr Lys Lys Thr Ile
 980 985 990
 Thr Thr Thr Glu Ile Met Asn Lys Pro Glu Glu Thr Ala Lys Pro Lys
 995 1000 1005
 Asp Arg Ala Thr Asn Ser Lys Ala Thr Thr Pro Lys Pro Gln Lys Pro
 1010 1015 1020
 Thr Lys Ala Pro Lys Lys Pro Thr Ser Thr Lys Lys Pro Lys Thr Met

```

1025          1030          1035          1040
Pro Arg Val Arg Lys Pro Lys Thr Thr Pro Thr Pro Arg Lys Met Thr
          1045          1050          1055
Ser Thr Met Pro Glu Leu Asn Pro Thr Ser Arg Ile Ala Glu Ala Met
          1060          1065          1070
Leu Gln Thr Thr Thr Arg Pro Asn Gln Thr Pro Asn Ser Lys Leu Val
          1075          1080          1085
Glu Val Asn Pro Lys Ser Glu Asp Ala Gly Gly Ala Glu Gly Glu Thr
          1090          1095          1100
Pro His Met Leu Leu Arg Pro His Val Phe Met Pro Glu Val Thr Pro
1105          1110          1115          1120
Asp Met Asp Tyr Leu Pro Arg Val Pro Asn Gln Gly Ile Ile Ile Asn
          1125          1130          1135
Pro Met Leu Ser Asp Glu Thr Asn Ile Cys Asn Gly Lys Pro Val Asp
          1140          1145          1150
Gly Leu Thr Thr Leu Arg Asn Gly Thr Leu Val Ala Phe Arg Gly His
          1155          1160          1165
Tyr Phe Trp Met Leu Ser Pro Phe Ser Pro Pro Ser Pro Ala Arg Arg
          1170          1175          1180
Ile Thr Glu Val Trp Gly Ile Pro Ser Pro Ile Asp Thr Val Phe Thr
1185          1190          1195          1200
Arg Cys Asn Cys Glu Gly Lys Thr Phe Phe Phe Lys Asp Ser Gln Tyr
          1205          1210          1215
Trp Arg Phe Thr Asn Asp Ile Lys Asp Ala Gly Tyr Pro Lys Pro Ile
          1220          1225          1230
Phe Lys Gly Phe Gly Gly Leu Thr Gly Gln Ile Val Ala Ala Leu Ser
          1235          1240          1245
Thr Ala Lys Tyr Lys Asn Trp Pro Glu Ser Val Tyr Phe Phe Lys Arg
          1250          1255          1260
Gly Gly Ser Ile Gln Gln Tyr Ile Tyr Lys Gln Glu Pro Val Gln Lys
1265          1270          1275          1280
Cys Pro Gly Arg Arg Pro Ala Leu Asn Tyr Pro Val Tyr Gly Glu Thr
          1285          1290          1295
Asp Thr Gly *
          1299

```

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<210> 1848
<211> 103
<212> PRT
<213> Homo sapiens

```

```

<400> 1848
Met Asn Pro Ala Val Arg Gln Arg Cys Leu Leu Phe Cys Phe Gln Gln
 1          5          10          15
Lys Leu Ile Leu Ser His Phe Phe Leu Leu Gln Val Pro Gln Trp Cys
          20          25          30
Ala Glu Tyr Cys Leu Ser Ile His Tyr Gln His Gly Gly Val Ile Cys
          35          40          45
Thr Gln Val His Lys Gln Thr Val Val Gln Leu Ala Leu Arg Val Ala
          50          55          60
Asp Glu Met Asp Val Asn Ile Gly His Glu Val Gly Tyr Val Ile Pro
          65          70          75          80
Phe Glu Asn Cys Cys Thr Asn Glu Thr Ile Leu Arg Leu Val Cys Gly
          85          90          95
Val Gln Ser Ala Pro Cys *
          100          102

```

<210> 1849
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1849
 Met Ser Arg Phe Leu Leu Pro Arg Glu Gly Cys Leu Leu Ile Val Phe
 1 5 10 15
 Met Leu Cys Glu Lys Thr Leu Pro Phe Leu Phe Thr Leu Lys Glu Tyr
 20 25 30
 Thr Phe Ile Pro Glu His Arg Thr Thr Asp Ile Asn Cys Val Asn Thr
 35 40 45
 His Glu
 50

<210> 1850
 <211> 84
 <212> PRT
 <213> Homo sapiens

<400> 1850
 Met Arg Leu His Ser Lys Gly Ser Gln Asp Pro Ser Thr Lys Val His
 1 5 10 15
 Ile Lys Ala Leu Gln Thr Val Thr Ser Phe Leu Met Leu Phe Ala Ile
 20 25 30
 Tyr Phe Leu Cys Ile Ile Thr Ser Thr Trp Asn Leu Arg Thr Gln Gln
 35 40 45
 Ser Lys Leu Val Leu Leu Leu Cys Gln Thr Val Ala Ile Met Tyr Pro
 50 55 60
 Ser Phe His Ser Phe Ile Leu Ile Met Gly Ser Arg Lys Leu Lys Gln
 65 70 75 80
 Thr Phe Leu Ser
 84

<210> 1851
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1851
 Met Ala Ala Cys Lys Leu Leu Lys His Leu Asn Gly Phe Ser Leu Leu
 1 5 10 15
 Leu Pro Arg Leu Glu Cys Asn Gly Val Ile Ser Val His Cys Asn Pro
 20 25 30
 Leu Pro Pro Gly Phe Lys Arg Phe Ser Cys Pro Ser Leu Leu Ser Ser
 35 40 45
 Trp Asp *
 50

<210> 1852
 <211> 54
 <212> PRT
 <213> Homo sapiens

<400> 1852
 Met Lys Thr Lys Cys Lys Pro Asn Ile Thr Phe Phe Asn Thr Ile Ile
 1 5 10 15
 Cys Phe Phe Leu Thr Phe Leu Phe Cys Ile Tyr Ile Asp Ser Leu Leu
 20 25 30
 Cys Thr Val Pro Lys Asn Pro Ala Gln Ala Val Gln Leu Asn Arg Asp
 35 40 45
 His Thr Lys Val His *
 50 53

<210> 1853
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1853
 Met Ala Val Val Arg Val Met Val Val Val Arg Val Thr Ala Val Val
 1 5 10 15
 Arg Val Met Val Val Arg Val Val Val Val Arg Val Met Val Val
 20 25 30
 Val Arg Ile Thr Ala Val Leu Arg Val Met Val Val Val Arg Ile Met
 35 40 45
 Ala Val Ile Arg Val Met Val Val Val Arg Val Thr Ala Ile Val Gly
 50 55 60
 Val Met Val Val Ile Arg Val Thr Ala Ile Val Ser Ile Met Val Val
 65 70 75 80
 Val Arg Val Met Val Val Val Arg Val Met Val Val Ala Arg Pro Met
 85 90 95
 Val Val Val Arg Val Met Ala Val Val Arg Val Met Ala Asp Ser Ala
 100 105 110
 Leu Arg Ala Ile Cys Ser Ser Ser Leu Asn Val Thr Phe Ser Leu Glu
 115 120 125 128
 *

<210> 1854
 <211> 190
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(190)
 <223> Xaa = any amino acid or nothing

<400> 1854

```

Met Ser Cys Phe Gly Leu Leu Leu Gly Gly Leu Thr Pro Arg Val Leu
 1          5          10          15
Ser Thr Glu Glu Gln Leu Pro Pro Gly Phe Pro Ser Ile Asp Met Gly
          20          25          30
Pro Gln Leu Lys Val Val Glu Lys Ala Arg Thr Ala Thr Met Leu Cys
          35          40          45
Ala Ala Gly Gly Asn Pro Asp Pro Glu Ile Ser Trp Phe Lys Asp Phe
          50          55          60
Leu Pro Val Asp Pro Ala Thr Ser Asn Gly Arg Ile Lys Gln Leu Arg
 65          70          75          80
Ser Gly Glu Gln Arg Ala Gly Val Lys Gly Pro Cys Arg Pro Gln Asn
          85          90          95
Lys Arg Leu Val Arg Ser Gln His Ser Leu Leu Pro Trp Ala Trp Ala
          100          105          110
Pro Pro Gly Leu Ser Gly Gly Tyr Leu Val Gly Trp Ala Gly Ser Tyr
          115          120          125
Cys Arg Cys Ala Trp Leu Arg Glu Glu Ser Ser Trp Leu Ala Val Pro
 130          135          140
Leu Pro Ser Ser Asp Cys Gln Thr Pro Asp Phe Gly Pro Val Leu Pro
 145          150          155          160
Leu Pro Ala His Val Met Cys Gln Cys Gly Gly Leu Phe Lys Gly Ala
          165          170          175
Leu Trp Met Leu Thr Leu Leu Leu Pro Cys Xaa Leu Ala *
          180          185          189

```

```

<210> 1855
<211> 78
<212> PRT
<213> Homo sapiens

```

```

<400> 1855
Met Val Val Ser Ala Trp Ile Gly Leu Glu Ala Thr Val Val Ala Ala
 1          5          10          15
Cys Leu Ala Leu Leu Gly Ser Val Val Arg Glu Thr Ser Thr Ser Ala
          20          25          30
Ser Pro Thr Pro Ala Ala Leu Arg Ala Ala Trp Thr Val Tyr Ser Ser
          35          40          45
Pro Met Thr Thr Cys Val Phe Ala Val Val Pro Leu Leu Ala Gly Thr
          50          55          60
Val Lys Pro Ser Ser Met Cys Val Pro Arg Cys Pro Ala *
 65          70          75          77

```

```

<210> 1856
<211> 67
<212> PRT
<213> Homo sapiens

```

```

<400> 1856
Met Thr Asn Trp Met Leu Leu Leu Ala Ser Arg Ile Phe Gln Ser Leu
 1          5          10          15
Ala Ile Pro Lys Gln Leu Gly Leu Arg Arg Glu Met Pro Ser Gly Ser
          20          25          30
Pro Thr Thr Asn Ser Ser Ser Gly Cys Ile Arg Asn Leu Glu Tyr Ser

```



```

      35      40      45
Thr Leu Met Gly Ser Glu Met Pro Met Ala Leu Ala Ala Glu Thr Trp
    50      55      60
Leu Leu *
    65  66

```

<210> 1857
 <211> 107
 <212> PRT
 <213> Homo sapiens

```

      <400> 1857
Met Leu Leu Met Phe Leu Leu Ala Thr Cys Leu Leu Ala Ile Ile Phe
  1      5      10      15
Val Pro Gln Glu Met Gln Thr Leu Arg Val Val Leu Ala Thr Leu Gly
      20      25      30
Val Gly Ala Ala Ser Leu Gly Ile Thr Cys Ser Thr Ala Gln Glu Asn
      35      40      45
Glu Leu Ile Pro Ser Ile Ile Arg Gly Arg Ala Thr Gly Ile Thr Gly
      50      55      60
Asn Phe Ala Asn Ile Gly Gly Ala Leu Ala Ser Leu Val Met Ile Leu
      65      70      75      80
Ser Ile Tyr Ser Arg Pro Leu Pro Trp Ile Ile Tyr Gly Val Phe Ala
      85      90      95
Ile Leu Ser Gly Leu Val Val Leu Leu Leu Pro
      100      105      107

```

<210> 1858
 <211> 134
 <212> PRT
 <213> Homo sapiens

```

      <400> 1858
Met Ile Pro Pro Ala Ile Phe Trp Val Leu Ile Ile Phe Gly Trp Thr
  1      5      10      15
Leu Val Tyr Gly Phe Val Tyr Phe Thr Thr Gly Glu Thr Ile Met Asp
      20      25      30
Lys Leu Leu Arg Val Leu Tyr Trp Ile Leu Val Lys Thr Phe Phe Arg
      35      40      45
Glu Ile Ser Val Ser His Gln Glu Arg Ile Pro Lys Asp Lys Pro Val
      50      55      60
Met Leu Val Cys Ala Pro His Ala Asn Gln Phe Val Asp Gly Met Val
      65      70      75      80
Ile Ser Thr His Leu Asp Arg Lys Val Tyr Phe Val Gly Ala Ala Ser
      85      90      95
Ser Phe Arg Lys Tyr Lys Val Val Gly Leu Phe Met Lys Leu Met Ala
      100      105      110
Ser Ile Ile Ser Gly Glu Arg His Gln Asp Val Lys Lys Val Leu Thr
      115      120      125
Gly Met Ala Thr Glu Lys
      130      134

```

<210> 1859
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1859
 Met Phe Tyr Val Lys Ala Glu Phe Leu Val Ser Phe Ser Cys Pro Trp
 1 5 10 15
 Leu Thr Ala Cys Ala Leu Leu Met Ser Cys Ser Trp Phe Leu Thr Leu
 20 25 30
 Thr Ile Leu Ser Val Lys Gly Gly Thr Pro Ala Gly Met Leu Asp Gln
 35 40 45
 Lys Lys Gly Lys Phe Ala Trp Phe Ser His Ser Thr Glu Thr His Gly
 50 55 60
 Asn Val Pro Leu Cys Ser Val Cys Val Asn Ala Cys Gly Cys Ile Pro
 65 70 75 80
 Asp *
 81

<210> 1860
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1860
 Met Pro Leu Ser Pro Leu Leu Phe His Leu Gly Pro Phe Pro Phe Lys
 1 5 10 15
 Ala Glu Ser Trp Leu Asn Phe Leu Pro Pro Phe Phe Pro Leu Leu
 20 25 30
 Pro Leu Leu Phe Leu Ala Lys Ala Glu Ile Gln Trp Ala *
 35 40 45

<210> 1861
 <211> 128
 <212> PRT
 <213> Homo sapiens

<400> 1861
 Met Thr Ile Phe Phe Ser Leu Leu Val Leu Ala Ile Cys Ile Ile Leu
 1 5 10 15
 Val His Leu Leu Ile Arg Tyr Arg Leu His Phe Leu Pro Glu Ser Val
 20 25 30
 Ala Val Val Ser Leu Gly Ile Leu Met Gly Ala Val Ile Lys Ile Ile
 35 40 45
 Glu Phe Lys Lys Leu Ala Asn Trp Lys Glu Glu Glu Met Phe Arg Pro
 50 55 60
 Asn Met Phe Phe Leu Leu Leu Leu Pro Pro Ile Ile Phe Glu Ser Gly
 65 70 75 80
 Tyr Ser Leu His Lys Gly Asn Phe Phe Gln Asn Ile Gly Ser Ile Thr
 85 90 95
 Leu Phe Ala Val Phe Gly Thr Ala Ile Ser Ala Phe Val Val Gly Gly

			100					105					110				
Gly	Ile	Tyr	Phe	Leu	Gly	Gln	Ala	His	Val	Ile	Ser	Lys	Leu	Asn	Met		
		115					120					125			128		

<210> 1862
 <211> 58
 <212> PRT
 <213> Homo sapiens

<400> 1862

Met	Trp	Asp	Met	Leu	Pro	Trp	Gly	Ile	Thr	Trp	Val	Leu	Leu	Thr	Thr		
1				5					10					15			
Gln	Leu	His	Ser	Pro	Leu	Leu	Tyr	Val	Ile	Gly	Phe	Thr	Tyr	Trp	Val		
			20					25					30				
Cys	Lys	Gly	Asp	Arg	Asp	Ser	Tyr	Leu	Glu	Glu	Asn	Ser	Arg	Glu	Thr		
		35					40					45					
Ala	Ser	Val	Tyr	Thr	Ser	Val	Leu	Ser	*								
	50					55		57									

<210> 1863
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1863

Met	Thr	Gln	Asp	Leu	Val	Leu	Thr	Val	Pro	Phe	Met	Gly	Cys	Leu	Leu		
1				5					10					15			
Ile	Leu	Val	Asp	Gly	Leu	Lys	Pro	Asn	Arg	Pro	Ala	Tyr	Ile	Gln	Thr		
			20					25					30				
Gly	Ser	Gln	Ala	Thr	Gln	Ala	Gly	Val	Gln	Trp	His	Asn	Tyr	Gly	Ser		
		35					40					45					
Leu	*																
	49																

<210> 1864
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1864

Met	Val	Ala	Ser	Ala	Ala	Gln	Leu	Leu	Ser	His	Val	Cys	Leu	Gly	Gly		
1				5					10					15			
Leu	Gln	Leu	Leu	His	Ser	Phe	Leu	Ser	Ser	Leu	Gln	Leu	Pro	Ala	Leu		
			20					25					30				
Leu	Leu	Lys	Leu	Ala	Pro	Glu	Ala	Leu	Ala	Leu	Phe	Thr	Ser	Ile	Leu		
		35					40					45					
Lys	Ser	Ala	Leu	Val	Val	His	Asp	Phe	Ser	Thr	Gln	Leu	Glu	Leu	Glu		
	50					55					60						

Gly Val Glu Leu Leu Val Cys Ser Pro Leu Glu Ala Leu Gly Pro Leu
 65 70 75 80
 Leu Cys Leu Gly Glu Leu Gly Leu Gln Ala
 85 90

<210> 1865
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1865
 Met Arg Leu Gly Leu Leu Leu Leu Ala Arg His Trp Cys Ile Ala Gly
 1 5 10 15
 Val Phe Pro Gln Lys Phe Asp Gly Asp Ser Ala Tyr Val Gly Met Ser
 20 25 30
 Asp Gly Asn Pro Glu Leu Leu Ser Thr Ser Gln Thr Tyr Asn Gly Gln
 35 40 45
 Ser Glu Asn Asn Glu Asp Tyr Glu Ile Pro Pro Ile Thr Pro Pro Asn
 50 55 60
 Leu Pro Glu Pro Ser Leu Leu His Leu Gly Asp His Glu Ala Ser Tyr
 65 70 75 80
 His Ser Leu Cys His Gly Leu Thr Pro Asn Gly Leu Leu Pro Ala Tyr
 85 90 95
 Ser Tyr Gln Ala Met Asp Leu Pro Ala Ile Met Val Ser Asn Met Leu
 100 105 110
 Ala Gln Asp Ser His Leu Leu Ser Gly Gln Leu Pro Thr
 115 120 125

<210> 1866
 <211> 129
 <212> PRT
 <213> Homo sapiens

<400> 1866
 Met Cys Phe Leu Asn Lys Leu Leu Leu Leu Ala Ala Leu Asp Trp Leu
 1 5 10 15
 Phe Gln Ile Pro Thr Val Pro Glu Asp Leu Phe Phe Leu Glu Glu Gly
 20 25 30
 Pro Ser Tyr Ala Phe Glu Val Asp Thr Val Ala Pro Glu His Gly Leu
 35 40 45
 Asp Asn Ala Pro Val Val Asp Gln Gln Leu Leu Tyr Thr Cys Cys Pro
 50 55 60
 Tyr Ile Gly Glu Leu Arg Lys Leu Leu Ala Ser Trp Val Ser Gly Ser
 65 70 75 80
 Ser Gly Arg Ser Gly Gly Phe Met Arg Lys Ile Thr Pro Thr Thr Thr
 85 90 95
 Thr Ser Leu Gly Ala Gln Pro Ser Gln Thr Ser Gln Gly Leu Gln Ala
 100 105 110
 Gln Leu Ala Gln Ala Phe Phe His Asn Gln Pro Pro Ser Leu Arg Arg
 115 120 125
 Thr
 129

<210> 1867
 <211> 80
 <212> PRT
 <213> Homo sapiens

<400> 1867
 Met Met Arg Leu Glu Lys Phe Val Thr Trp Ser Val Met Ala Leu Gly
 1 5 10 15
 Trp Phe Val Phe Arg Gln Gln Asn Cys Trp Ala Leu Trp Ser Lys Ser
 20 25 30
 Val Leu Ile Ser Trp Ser Arg Pro Leu Thr Arg Ser Met Ser Asp Leu
 35 40 45
 Arg Arg Lys Arg Thr Ala His Glu Arg Ala Lys Glu Leu Tyr Ser Ser
 50 55 60
 Gly Glu Phe Ser Ser Gly Arg Lys Trp Gly Asp Asp Ala Pro Lys Glu
 65 70 75 80

<210> 1868
 <211> 113
 <212> PRT
 <213> Homo sapiens

<400> 1868
 Met Leu Val Trp Leu Tyr Gly Thr Ile Arg Trp Pro Ala Leu Gly Ala
 1 5 10 15
 Pro Arg Trp Trp Pro Trp Val Trp Pro Pro Gly Val Trp Ser Gly Ile
 20 25 30
 Glu Thr Pro Ser Ser Thr Pro Arg Ala Arg Ser Leu Arg Gly Thr Gly
 35 40 45
 Gly Ala Val Thr Arg Arg Thr Gly Ser Ser Phe Pro Trp Thr Thr Thr
 50 55 60
 Thr Arg Pro Ser Ser Trp Thr Thr Ala His Thr Ala Ala Trp Gly
 65 70 75 80
 Ala Arg Thr Ala Ser Ala Cys Ala Trp Ser Pro Thr Ser His Ser Lys
 85 90 95
 Thr Arg Pro Trp Gln Gly Leu Glu Leu Thr Ser Leu Ala Cys Ser Ser
 100 105 110 112
 *

<210> 1869
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Phe Leu Trp Val Lys Arg Leu Leu Phe Ala Ala Ser Leu Leu Ala
 1 5 10 15

```

Ser Asp Ser Ser Thr Ile Leu Cys Ser Arg Asp Leu Ile Leu Glu Ser
      20      25      30
Ile Ala Leu Ile Ile Ala Phe Cys Ser Leu Arg Ile Leu Pro Phe Ser
      35      40      45
Trp Ala Ser Ser Ser Cys Leu Cys Ile Met Phe Ser Ser Val Ser Leu
      50      55      60
Ser Ala Arg Ser Phe Phe Ile *
      65      70  71

```

<210> 1870
 <211> 197
 <212> PRT
 <213> Homo sapiens

```

<400> 1870
Met Arg Thr Leu Leu Thr Ile Leu Thr Val Gly Ser Leu Ala Ala His
  1      5      10      15
Ala Pro Glu Asp Pro Ser Asp Leu Leu Gln His Val Lys Phe Gln Ser
      20      25      30
Ser Asn Phe Glu Asn Ile Leu Thr Trp Asp Ser Gly Pro Glu Gly Thr
      35      40      45
Pro Asp Thr Val Tyr Ser Ile Glu Tyr Lys Thr Tyr Gly Glu Arg Asp
      50      55      60
Trp Val Ala Lys Lys Gly Cys Gln Arg Ile Thr Arg Lys Ser Cys Asn
      65      70      75      80
Leu Thr Val Glu Thr Gly Asn Leu Thr Glu Leu Tyr Tyr Ala Arg Val
      85      90      95
Thr Ala Val Ser Ala Gly Gly Arg Ser Ala Thr Lys Met Thr Asp Arg
      100      105      110
Phe Ser Ser Leu Gln His Thr Thr Leu Lys Pro Pro Asp Val Thr Cys
      115      120      125
Ile Ser Lys Val Arg Ser Ile Gln Met Ile Val His Pro Thr Pro Thr
      130      135      140
Pro Ile Arg Ala Gly Asp Gly His Arg Leu Thr Leu Glu Asp Ile Phe
      145      150      155      160
His Asp Leu Phe Tyr His Leu Glu Leu Gln Val Asn Arg Thr Tyr Gln
      165      170      175
Met Val Ser Val Cys Cys Thr Leu Val Phe Leu Cys Leu Gly Ser Leu
      180      185      190
Phe Pro Pro Asn *
      195 196

```

<210> 1871
 <211> 75
 <212> PRT
 <213> Homo sapiens

```

<400> 1871
Met Glu Tyr Arg Leu Gln Lys Gly Ala Gly Phe His Leu Asp Leu Phe
  1      5      10      15
Cys Val Ala Val Leu Met Leu Leu Thr Ser Ala Leu Gly Leu Pro Trp
      20      25      30
Tyr Val Ser Ala Thr Val Ile Ser Leu Ala His Met Asp Ser Leu Arg

```

```

      35      40      45
Arg Glu Ser Arg Ala Cys Ala Pro Gly Glu Arg Pro Asn Phe Leu Gly
   50      55      60
Ile Arg Glu Gln Arg Leu Thr Gly Leu Val Val
   65      70      75

```

<210> 1872
 <211> 84
 <212> PRT
 <213> Homo sapiens

```

      <400> 1872
Met Pro Phe Ser Thr Cys Thr Ala Leu Pro Ser Trp Ala Thr Leu Ser
  1      5      10      15
Thr Trp Ser Trp Thr Pro Lys Val Ser Leu Ala Gly Glu Glu Arg Gly
      20      25      30
Glu Thr Cys Gln Pro Asp Pro Phe Pro Pro His Pro Ser Cys Ser Val
      35      40      45
Gly Arg Thr Pro Pro His Ser Ser Leu Gly Ser Pro Pro Thr Thr Leu
      50      55      60
Phe Leu Ser Pro Leu Leu Arg Val Glu Ser Arg Gly Ala Lys Cys Val
      65      70      75      80
Val Cys Cys *
      83

```

<210> 1873
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

      <400> 1873
Met Cys Gly Ser Pro Glu Arg Leu Cys Val Arg Cys Ala Arg Val Cys
  1      5      10      15
Ala Val Phe Met Arg Ala Leu Cys Val Val Cys Val Tyr Leu Arg Arg
      20      25      30
Arg Ile Lys Tyr Glu Arg Phe Leu Gly Trp Glu Leu Arg Cys Lys Ile
      35      40      45
Trp Gly *
      50

```

<210> 1874
 <211> 503
 <212> PRT
 <213> Homo sapiens

```

      <400> 1874
Met Ser Leu Val Leu Leu Ser Leu Ala Ala Leu Cys Arg Ser Ala Val
  1      5      10      15
Pro Arg Glu Pro Thr Val Gln Cys Gly Ser Glu Thr Gly Pro Ser Pro
      20      25      30

```

Glu Trp Met Leu Gln His Asp Leu Ile Pro Gly Asp Leu Arg Asp Leu
 35 40 45
 Arg Val Glu Pro Val Thr Thr Ser Val Ala Thr Gly Asp Tyr Ser Ile
 50 55 60
 Leu Met Asn Val Ser Trp Val Leu Arg Ala Asp Ala Ser Ile Arg Leu
 65 70 75 80
 Leu Lys Ala Thr Lys Ile Cys Val Thr Gly Lys Ser Asn Phe Gln Ser
 85 90 95
 Tyr Ser Cys Val Arg Cys Asn Tyr Thr Glu Ala Phe Gln Thr Gln Thr
 100 105 110
 Arg Pro Ser Gly Gly Lys Trp Thr Phe Ser Tyr Ile Gly Phe Pro Val
 115 120 125
 Glu Leu Asn Thr Val Tyr Phe Ile Gly Ala His Asn Ile Pro Asn Ala
 130 135 140
 Asn Met Asn Glu Asp Gly Pro Ser Met Ser Val Asn Phe Thr Ser Pro
 145 150 155 160
 Gly Cys Leu Asp His Ile Met Lys Tyr Lys Lys Lys Cys Val Lys Ala
 165 170 175
 Gly Ser Leu Trp Asp Pro Asn Ile Thr Ala Cys Lys Lys Asn Glu Glu
 180 185 190
 Thr Val Glu Val Asn Phe Thr Thr Thr Pro Leu Gly Asn Arg Tyr Met
 195 200 205
 Ala Leu Ile Gln His Ser Thr Ile Ile Gly Phe Ser Gln Val Phe Glu
 210 215 220
 Pro His Gln Lys Lys Gln Thr Arg Ala Ser Val Val Ile Pro Val Thr
 225 230 235 240
 Gly Asp Ser Glu Gly Ala Thr Val Gln Leu Thr Pro Tyr Phe Pro Thr
 245 250 255
 Cys Gly Ser Asp Cys Ile Arg His Lys Gly Thr Val Val Leu Cys Pro
 260 265 270
 Gln Thr Gly Val Pro Phe Pro Leu Asp Asn Asn Lys Ser Lys Pro Gly
 275 280 285
 Gly Trp Leu Pro Leu Leu Leu Leu Ser Leu Leu Val Ala Thr Trp Val
 290 295 300
 Leu Val Ala Gly Ile Tyr Leu Met Trp Arg His Glu Arg Ile Lys Lys
 305 310 315 320
 Thr Ser Phe Ser Thr Thr Thr Leu Leu Pro Pro Ile Lys Val Leu Val
 325 330 335
 Val Tyr Pro Ser Glu Ile Cys Phe His His Thr Ile Cys Tyr Phe Thr
 340 345 350
 Glu Phe Leu Gln Asn His Cys Arg Ser Glu Val Ile Leu Glu Lys Trp
 355 360 365
 Gln Lys Lys Lys Ile Ala Glu Met Gly Pro Val Gln Trp Leu Ala Thr
 370 375 380
 Gln Lys Lys Ala Ala Asp Lys Val Val Phe Leu Leu Ser Asn Asp Val
 385 390 395 400
 Asn Ser Val Cys Asp Gly Thr Cys Gly Lys Ser Glu Gly Ser Pro Ser
 405 410 415
 Glu Asn Ser Gln Asp Leu Phe Pro Leu Ala Phe Asn Leu Phe Cys Ser
 420 425 430
 Asp Leu Arg Ser Gln Ile His Leu His Lys Tyr Val Val Tyr Phe
 435 440 445
 Arg Glu Ile Asp Thr Lys Asp Tyr Asn Ala Leu Ser Val Cys Pro
 450 455 460
 Lys Tyr His Leu Met Lys Asp Ala Thr Ala Phe Cys Ala Glu Leu Leu
 465 470 475 480
 His Val Lys Gln Gln Val Ser Ala Gly Lys Arg Ser Gln Ala Cys His
 485 490 495
 Asp Gly Cys Cys Ser Leu *

500 502

<210> 1875
 <211> 158
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(158)
 <223> Xaa = any amino acid or nothing

<400> 1875
 Met Xaa Pro Pro Thr Arg Pro Arg Thr Arg Gly Val Gly Ile Phe Tyr
 1 5 10 15
 Phe Val Ile Tyr Ile Ile Ile Ser Phe Leu Val Val Val Asn Met Tyr
 20 25 30
 Ile Ala Val Ile Leu Glu Asn Phe Ser Val Ala Thr Glu Glu Ser Thr
 35 40 45
 Glu Pro Leu Ser Glu Asp Asp Phe Glu Met Phe Tyr Glu Val Trp Glu
 50 55 60
 Lys Phe Asp Pro Asp Ala Thr Gln Phe Ile Glu Phe Ser Lys Leu Ser
 65 70 75 80
 Asp Phe Ala Ala Ala Leu Asp Pro Pro Leu Leu Ile Ala Lys Pro Asn
 85 90 95
 Lys Val Gln Leu Ile Ala Met Asp Leu Pro Met Val Ser Gly Asp Arg
 100 105 110
 Ile His Cys Leu Asp Ile Leu Phe Ala Phe Thr Lys Arg Val Leu Gly
 115 120 125
 Glu Ser Gly Glu Met Asp Ser Leu Arg Ser Gln Met Glu Glu Arg Phe
 130 135 140
 Met Ser Ala Asn Pro Ser Lys Val Ser Tyr Glu Pro Ile Thr
 145 150 155 158

<210> 1876
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1876
 Met Gly Asn Arg Ala Val Ile Ile Ala Arg Gln Leu Ser Ser Val His
 1 5 10 15
 Thr Leu Ile Cys Asn Phe Phe Trp Leu Leu Leu Arg Thr Thr Gly Gly
 20 25 30
 Asp Leu Asp Ser Leu Lys Cys Ser Tyr Glu Ser Ile Gly Leu Asn Ser
 35 40 45
 Ile Ser Thr His Glu Phe Ile Cys Thr Trp Gln Arg Arg Leu Asn Phe
 50 55 60
 Ser Phe Val Met Ser Phe Lys Pro Leu Phe Arg Ala Ser Pro His Ser
 65 70 75 80
 Tyr Leu Leu Ile Ile Gly Ser Gln Leu His Glu Thr Phe Asn Leu Gly
 85 90 95
 Ser Ile Ser Ser Glu Glu Lys Cys Ser *
 100 105

<210> 1877
 <211> 241
 <212> PRT
 <213> Homo sapiens

 <221> misc_feature
 <222> (1)...(241)
 <223> Xaa = any amino acid or nothing

<400> 1877
 Met Leu Trp Ala Leu Trp Pro Arg Trp Leu Ala Asp Lys Met Leu Pro
 1 5 10 15
 Leu Leu Gly Ala Val Leu Leu Gln Lys Arg Glu Lys Arg Gly Pro Leu
 20 25 30
 Trp Arg His Trp Arg Arg Glu Thr Tyr Pro Tyr Tyr Asp Leu Gln Val
 35 40 45
 Lys Val Leu Arg Ala Thr Asn Ile Arg Gly Thr Asp Leu Leu Ser Lys
 50 55 60
 Ala Asp Cys Tyr Val Gln Leu Trp Leu Pro Thr Ala Ser Pro Ser Pro
 65 70 75 80
 Ala Gln Thr Arg Ile Val Ala Asn Cys Ser Asp Pro Glu Trp Asn Glu
 85 90 95
 Thr Phe His Tyr Gln Ile His Gly Ala Val Lys Asn Val Leu Glu Leu
 100 105 110
 Thr Leu Tyr Asp Lys Asp Ile Leu Gly Ser Asp Gln Leu Ser Leu Leu
 115 120 125
 Leu Phe Asp Leu Arg Ser Leu Lys Cys Gly Gln Pro His Lys His Thr
 130 135 140
 Phe Pro Leu Asn His Gln Asp Ser Gln Glu Leu Gln Val Glu Phe Val
 145 150 155 160
 Leu Glu Lys Ser Gln Glu Pro Ala Ser Glu Val Ile Thr Asn Gly Val
 165 170 175
 Leu Gly Ala His Pro Trp Leu Arg Met Lys Gly Met Ile Leu Gly Glu
 180 185 190
 Gly Arg Ala Pro Arg Gln Gln His Gly Gln Ser Trp Glu Gly Gly Val
 195 200 205
 Gly Pro Ser Pro Leu Ser Xaa Xaa Xaa Asn Thr Gly Gly Lys Ile Val
 210 215 220
 Gly Phe Trp Glu Glu Met Ala Asn Gly Thr Gly Ala Pro Pro Arg Pro
 225 230 235 240
 Pro
 241

<210> 1878
 <211> 50
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Met Leu Leu Met Leu Leu Phe Arg Cys Cys Ser Ser Lys Asp Leu Trp
 1 5 10 15
 Pro Val Leu Ile Ala His Leu Val Pro Gln Gly Gly Gln Glu Gly Asn

```

          20          25          30
Val Gly Glu Gln Thr Lys Gly Lys Ser Asn Arg Val Leu Pro Val Phe
          35          40          45
Leu *
49

```

```

<210> 1879
<211> 56
<212> PRT
<213> Homo sapiens

```

```

<400> 1879
Met Cys Ser Ala Phe Ser Ser Phe Trp Trp Val Pro Pro Leu Ala Gly
 1          5          10          15
Ser Gly Val Lys Leu Gln Thr Phe Thr Ala Ser Val Thr Ala His Lys
          20          25          30
Arg Ser Thr Asp Pro Lys Ser Glu Gln Gln Leu Asp Leu Ser Gln Arg
          35          40          45
Thr Lys Glu Gln Ser Leu Thr Lys
          50          55 56

```

```

<210> 1880
<211> 161
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature
<222> (1)...(161)
<223> Xaa = any amino acid or nothing

```

```

<400> 1880
Met Pro Ser Ala Ser Leu Leu Val Asn Leu Leu Ser Ala Leu Leu Ile
 1          5          10          15
Leu Phe Val Phe Gly Glu Thr Glu Ile Arg Phe Thr Gly Gln Thr Glu
          20          25          30
Phe Val Val Asn Glu Thr Ser Thr Thr Val Ile Arg Leu Ile Ile Glu
          35          40          45
Arg Ile Gly Glu Pro Ala Asn Val Thr Ala Ile Val Ser Leu Tyr Gly
          50          55          60
Glu Asp Ala Gly Asp Phe Phe Asp Thr Tyr Ala Ala Ala Phe Ile Pro
          65          70          75          80
Ala Gly Glu Thr Asn Arg Thr Val Tyr Ile Ala Val Cys Asp Asp Asp
          85          90          95
Leu Pro Glu Pro Asp Glu Thr Phe Ile Phe His Leu Thr Leu Gln Lys
          100          105          110
Pro Ser Ala Asn Val Lys Leu Gly Trp Pro Arg Thr Val Thr Val Thr
          115          120          125
Ile Leu Ser Asn Gly Gln Met Ala Phe Trp Glu Phe Ile Phe Ile Leu
          130          135          140
Asn Ile Gly Leu Pro Pro Pro Ile Pro Pro Ser Gly Xaa Leu Lys Ala
          145          150          155          160
Pro
161

```

<210> 1881
 <211> 130
 <212> PRT
 <213> Homo sapiens

<400> 1881
 Met Gly Ile Tyr Gln Met Tyr Leu Cys Phe Leu Leu Ala Val Leu Leu
 1 5 10 15
 Gln Leu Tyr Val Ala Thr Glu Ala Ile Leu Ile Ala Leu Val Gly Ala
 20 25 30
 Thr Pro Ser Tyr His Trp Asp Leu Ala Glu Leu Leu Pro Asn Gln Ser
 35 40 45
 His Gly Asn Gln Ser Ala Gly Glu Asp Gln Ala Phe Gly Asp Trp Leu
 50 55 60
 Leu Thr Ala Asn Gly Ser Glu Ile His Lys His Val His Phe Ser Ser
 65 70 75 80
 Ser Phe Thr Ser Ile Ala Ser Glu Trp Phe Leu Ile Ala Asn Arg Ser
 85 90 95
 Tyr Lys Val Ser Ala Ala Ser Ser Phe Phe Phe Ser Gly Val Phe Val
 100 105 110
 Gly Val Ile Ser Phe Gly Gln Leu Ser Asp Arg Phe Gly Arg Lys Lys
 115 120 125
 Val Tyr
 130

<210> 1882
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 1882
 Met Leu Trp Phe Ser Gly Val Gly Ala Leu Ala Glu Arg Tyr Cys Arg
 1 5 10 15
 Arg Ser Pro Gly Ile Thr Cys Cys Val Leu Leu Leu Leu Asn Cys Ser
 20 25 30
 Gly Val Pro Met Ser Leu Ala Ser Ser Phe Leu Thr Gly Ser Val Ala
 35 40 45
 Lys Cys Glu Asn Glu Gly Glu Val Leu Gln Ile Pro Phe Ile Thr Asp
 50 55 60
 Asn Pro Cys Ile Met Cys Val Cys Leu Asn Lys Glu Val Thr Cys Lys
 65 70 75 80
 Arg Glu Lys Cys Pro Val Leu Ser Arg Asp Cys Ala Leu Ala Ile Lys
 85 90 95
 Gln Arg Gly Ala Cys Cys Glu Gln Cys Lys Gly Cys
 100 105 108

<210> 1883
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1883

```

Met Leu Phe Tyr Leu Val Ser Val Cys Leu Cys Val Ala Val Ile Val
 1           5           10           15
Ala Phe Gln Leu Thr Ala Phe Thr Phe Arg Lys Asn Leu Ala Ala Thr
           20           25           30
Ala Leu Leu Leu Ser Leu Phe Gly Tyr Ala Thr Leu Pro Trp Met Tyr
           35           40           45
Leu Met Ser Arg Ile Phe Ser Ser Ser Asp Val Ala Phe Ile Ser Tyr
           50           55           60
Val Ser Leu Asn Phe Ile Phe Gly Leu Cys Thr Met Leu Ile Thr Ile
           65           70           75           80
Met Pro Arg Leu Leu Ala Ile Ile
           85           88

```

<210> 1884

<211> 116

<212> PRT

<213> Homo sapiens

<400> 1884

```

Met Cys Trp Ala Arg Cys Trp Thr Arg Trp Asn Thr Cys Thr Ile Trp
 1           5           10           15
Thr Ser Ser Thr Asp Pro Phe Arg Lys Cys Trp Met Ala Pro Glu Ala
           20           25           30
Leu Asn Phe Ser Phe Ser His Lys Ser Asp Ile Trp Ser Leu Gly Cys
           35           40           45
Ile Ile Leu Asp Met Thr Ser Cys Ser Phe Met Asp Gly Thr Glu Ala
           50           55           60
Met His Leu Arg Lys Ser Leu Arg Gln Ser Pro Gly Ser Leu Lys Ala
           65           70           75           80
Val Leu Lys Thr Met Glu Glu Lys Gln Ile Pro Asp Val Glu Thr Phe
           85           90           95
Arg Asn Leu Leu Pro Leu Met Leu Gln Ile Asp Pro Ser Asp Arg Ile
           100           105           110
Thr Ile Lys *
           115

```

<210> 1885

<211> 115

<212> PRT

<213> Homo sapiens

<400> 1885

```

Met Ser Glu Arg Val Glu Arg Asn Trp Ser Thr Gly Gly Trp Leu Leu
 1           5           10           15
Ala Leu Cys Leu Ala Trp Leu Trp Thr His Leu Thr Leu Ala Ala Leu
           20           25           30
Gln Pro Pro Thr Ala Thr Val Leu Val Gln Gln Gly Thr Cys Glu Val
           35           40           45
Ile Ala Ala His Arg Cys Cys Asn Arg Asn Arg Ile Glu Glu Arg Ser
           50           55           60

```

```

Gln Thr Val Lys Cys Ser Cys Phe Ser Gly Gln Val Ala Gly Thr Thr
 65              70              75              80
Arg Ala Lys Pro Ser Cys Val Asp Asp Leu Leu Ala Ala His Cys
              85              90              95
Ala Arg Arg Asp Pro Arg Ala Ala Leu Arg Leu Leu Leu Pro Gln Pro
          100              105              110
Pro Ser Ser
          115

```

```

<210> 1886
<211> 357
<212> PRT
<213> Homo sapiens

```

```

<400> 1886
Met Ile Leu Ser Leu Leu Phe Ser Leu Gly Gly Pro Leu Gly Trp Gly
 1              5              10              15
Leu Leu Gly Ala Trp Ala Gln Ala Ser Ser Thr Ser Leu Ser Asp Leu
          20              25              30
Gln Ser Ser Arg Thr Pro Gly Val Trp Lys Ala Glu Ala Glu Asp Thr
          35              40              45
Gly Lys Asp Pro Val Gly Arg Asn Trp Cys Pro Tyr Pro Met Ser Lys
          50              55              60
Leu Val Thr Leu Leu Ala Leu Cys Lys Thr Glu Lys Phe Leu Ile His
          65              70              75              80
Ser Gln Gln Pro Cys Pro Gln Gly Ala Pro Asp Cys Gln Lys Val Lys
          85              90              95
Val Met Tyr Arg Met Ala His Lys Pro Val Tyr Gln Val Lys Gln Lys
          100              105              110
Val Leu Thr Ser Leu Ala Trp Arg Cys Cys Pro Gly Tyr Thr Gly Pro
          115              120              125
Asn Cys Glu His His Asp Ser Met Ala Ile Pro Glu Pro Ala Asp Pro
          130              135              140
Gly Asp Ser His Gln Glu Pro Gln Asp Gly Pro Val Ser Phe Lys Pro
          145              150              155              160
Gly His Leu Ala Ala Val Ile Asn Glu Val Glu Val Gln Gln Glu Gln
          165              170              175
Gln Glu His Leu Leu Gly Asp Leu Gln Asn Asp Val His Arg Val Ala
          180              185              190
Asp Ser Leu Pro Gly Leu Trp Lys Ala Leu Pro Gly Asn Leu Thr Ala
          195              200              205
Ala Val Met Glu Ala Asn Gln Thr Gly His Glu Phe Pro Asp Arg Ser
          210              215              220
Leu Glu Gln Val Leu Leu Pro His Val Asp Thr Phe Leu Gln Val His
          225              230              235              240
Phe Ser Pro Ile Trp Arg Ser Phe Asn Gln Ser Leu His Ser Leu Thr
          245              250              255
Gln Ala Ile Arg Asn Leu Ser Leu Asp Val Glu Ala Asn Arg Gln Ala
          260              265              270
Ile Ser Arg Val Gln Asp Ser Ala Val Ala Arg Ala Asp Phe Gln Glu
          275              280              285
Leu Gly Ala Lys Phe Glu Ala Lys Val Gln Glu Asn Thr Gln Arg Val
          290              295              300
Gly Gln Leu Arg Gln Asp Val Glu Asp Arg Leu His Ala Gln His Phe
          305              310              315              320
Thr Leu His Arg Ser Ile Ser Glu Leu Gln Ala Asp Val Asp Thr Lys

```

325 330 335
 Leu Lys Arg Leu His Lys Ala Gln Glu Ala Pro Gly Thr Asn Gly Ser
 340 345 350
 Leu Val Leu Glu Arg
 355 357

<210> 1887
 <211> 86
 <212> PRT
 <213> Homo sapiens

<400> 1887
 Met Leu Cys Ser Arg Leu Gly Thr Thr Ala Ser Trp Arg Arg Leu Gly
 1 5 10 15
 Ile Arg Ala Trp Ala Pro Leu Leu Leu Phe Pro Trp Asp Trp His
 20 25 30
 Phe Ile Leu Ser Phe Ser Ser Arg Pro Trp Ala Gly Thr Leu Leu Ala
 35 40 45
 Pro His Asp Val Ile Met Gly Ser Ser Thr Phe Pro Gln Ser Cys Gln
 50 55 60
 Ala Glu Ala Gly Pro Arg His Ala Trp Pro Thr Gly Arg Phe Ser Arg
 65 70 75 80
 Arg Leu Arg Arg Val *
 85

<210> 1888
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1888
 Met Ser Val Arg Arg Ala Leu Thr Pro Ser Ala Leu Gly Leu Val Phe
 1 5 10 15
 Ile Leu Gln Ile Phe Ala His Gly Leu Pro Gly Pro Gly Pro Cys His
 20 25 30
 Leu Gly Pro Gly Ile Cys Leu Arg Ile Cys Gln Cys Ala Leu Asn *
 35 40 45 47

<210> 1889
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1889
 Met Ser Val Val Met Leu Ser Tyr Leu Leu Ser Ala Phe Phe Ser Gln
 1 5 10 15
 Ala Asn Thr Ala Ala Leu Cys Thr Ser Leu Val Tyr Met Ile Ser Phe
 20 25 30
 Leu Pro Tyr Ile Val Leu Leu Val Leu His Asn Gln Leu Ser Phe Val
 35 40 45

Asn Gln Thr Phe Leu Cys Leu Leu Ser Thr Thr Ala Phe Gly Gln Gly
 50 55 60
 Val Phe Phe Ile Thr Phe Leu Glu Gly Gln Glu Thr Gly Ile His
 65 70 75 79

<210> 1890
 <211> 251
 <212> PRT
 <213> Homo sapiens

<400> 1890
 Met Asn Val Ile Tyr Phe Pro Leu His Leu Phe Val Val Tyr Ser Arg
 1 5 10 15
 Ala Tyr Thr Ser Leu Val Leu Val Gly Cys Thr Asn Leu Cys Ala Val
 20 25 30
 Leu Phe Ala Arg Cys Leu Asp Asp His Leu Val Ser Leu Arg Met Ser
 35 40 45
 Gly Ser Arg Lys Glu Phe Asp Val Lys Gln Ile Leu Lys Ile Arg Trp
 50 55 60
 Arg Trp Phe Gly His Gln Ala Ser Ser Pro Asn Ser Thr Val Asp Ser
 65 70 75 80
 Gln Gln Gly Glu Phe Trp Asn Arg Gly Gln Thr Gly Ala Asn Gly Gly
 85 90 95
 Arg Lys Phe Leu Asp Pro Cys Ser Leu Gln Leu Pro Leu Ala Ser Ile
 100 105 110
 Gly Tyr Arg Arg Ser Ser Gln Leu Asp Phe Gln Asn Ser Pro Ser Trp
 115 120 125
 Pro Met Ala Ser Thr Ser Glu Val Pro Ala Phe Glu Phe Thr Ala Glu
 130 135 140
 Asp Cys Gly Gly Ala His Trp Leu Asp Arg Pro Glu Val Asp Asp Gly
 145 150 155 160
 Thr Ser Glu Glu Glu Asn Glu Ser Asp Ser Ser Ser Cys Arg Thr Ser
 165 170 175
 Asn Ser Ser Gln Thr Leu Ser Ser Cys His Thr Met Glu Pro Cys Thr
 180 185 190
 Ser Asp Glu Phe Phe Gln Ala Leu Asn His Ala Glu Gln Thr Phe Lys
 195 200 205
 Lys Met Glu Asn Tyr Leu Arg His Lys Gln Leu Cys Asp Val Ile Leu
 210 215 220
 Val Ala Gly Asp Arg Arg Ile Pro Ala His Arg Leu Val Leu Ser Ser
 225 230 235 240
 Val Ser Asp Tyr Phe Ala Gly Met Phe Thr Asn
 245 250 251

<210> 1891
 <211> 117
 <212> PRT
 <213> Homo sapiens

<221> misc_feature
 <222> (1)...(117)
 <223> Xaa = any amino acid or nothing

<400> 1891

```

Met Leu Ile Asp Val Phe Phe Phe Leu Phe Leu Phe Ala Xaa Trp Met
 1           5           10           15
Val Ala Phe Gly Val Ala Arg Gln Gly Ile Leu Arg Gln Asn Glu Gln
           20           25           30
Arg Trp Arg Trp Ile Phe Arg Ser Val Ile Tyr Glu Pro Tyr Leu Ala
           35           40           45
Met Phe Gly Gln Val Pro Ser Asp Val Asp Gly Thr Thr Tyr Asp Phe
           50           55           60
Ala His Cys Thr Phe Thr Gly Asn Glu Ser Lys Pro Leu Cys Val Glu
           65           70           75           80
Leu Asp Glu His Asn Leu Pro Arg Phe Pro Glu Trp Ile Thr Ile Pro
           85           90           95
Leu Val Cys Ile Tyr Met Leu Ser Thr Asn Ile Leu Leu Val Asn Leu
           100          105          110
Leu Val Ala Met Phe
           115          117

```

<210> 1892

<211> 103

<212> PRT

<213> Homo sapiens

<400> 1892

```

Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala
 1           5           10           15
Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His
           20           25           30
Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser
           35           40           45
Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile
           50           55           60
Arg Leu Pro Val Ala Leu Ser Phe Ser Ser Gly Ala Arg Leu Ala Phe
           65           70           75           80
Thr Cys Leu Arg Lys Ile Ser Gly Phe Arg Ala Leu Ile Trp Gly Glu
           85           90           95
Asp Lys Gly Trp Asp Leu *
           100          102

```

<210> 1893

<211> 77

<212> PRT

<213> Homo sapiens

<221> misc_feature

<222> (1)...(77)

<223> Xaa = any amino acid or nothing

<400> 1893

```

Met Leu Ala Ala Gly Val Thr Ser Ala Ala Gly Leu Ala Leu Ala Phe
 1           5           10           15
Ser Gly Asp Tyr Leu Lys Ala Phe Ile Asp Val Pro Thr Val Pro Ala
           20           25           30

```

Ala Leu Val Phe Leu Leu Leu Val Gly Leu Leu Asn Ala Arg Gly Ile
 35 40 45
 Lys Glu Ser Met Arg Ala Xaa Val Val Met Thr Val Val Glu Val Thr
 50 55 60
 Gly Leu Val Leu Val Val Val Leu Ala Leu Val Pro Gly
 65 70 75 77

<210> 1894
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1894
 Met Trp Ala Ala Ser Trp Cys Leu Ser Leu Trp Cys Cys Trp Val Trp
 1 5 10 15
 Ser Gly Thr Ser Glu Ser Ile Thr Ala Asn Ser Ser Gln His Leu Pro
 20 25 30
 Leu Ser Pro Trp Trp Glu Ser Pro Ser Ser Ser Ala Ser *
 35 40 45

<210> 1895
 <211> 162
 <212> PRT
 <213> Homo sapiens

<400> 1895
 Met Thr Ala Trp Arg Arg Phe Gln Ser Leu Leu Leu Leu Leu Gly Leu
 1 5 10 15
 Leu Val Leu Cys Ala Arg Leu Leu Thr Ala Ala Lys Gly Gln Asn Cys
 20 25 30
 Gly Gly Leu Val Gln Gly Pro Asn Gly Thr Ile Glu Ser Pro Gly Phe
 35 40 45
 Pro His Gly Tyr Pro Asn Tyr Ala Asn Cys Thr Trp Ile Ile Ile Thr
 50 55 60
 Gly Glu Arg Asn Arg Ile Gln Leu Ser Phe His Thr Phe Ala Leu Glu
 65 70 75 80
 Glu Asp Phe Asp Ile Leu Ser Val Tyr Asp Gly Gln Pro Gln Gln Gly
 85 90 95
 Asn Leu Lys Val Arg Leu Ser Gly Phe Gln Leu Pro Ser Ser Ile Val
 100 105 110
 Ser Thr Gly Ser Ile Leu Thr Leu Trp Phe Thr Thr Asp Phe Ala Val
 115 120 125
 Ser Ala Gln Gly Phe Lys Ala Leu Tyr Glu Gly Arg Arg Leu Val Val
 130 135 140
 Phe Cys Thr Cys Ile His Cys Pro Asn Asp Leu Ile His Ala Thr Leu
 145 150 155 160
 Asp *
 161

<210> 1896
 <211> 60

<212> PRT

<213> Homo sapiens

<400> 1896

```

Met Leu Ser Leu Pro Cys Gly Trp Leu Cys Thr Ala Ile Gly Leu Pro
 1             5             10             15
Thr Met Phe Gly Tyr Ile Ile Cys Gly Val Leu Leu Gly Pro Ser Gly
             20             25             30
Leu Asn Ser Ile Lys Val Arg Thr Lys Leu Asp Cys Phe Gly Ile Cys
             35             40             45
Leu Thr Glu Tyr Lys Lys Arg Ile His Glu Asp *
             50             55             59

```

<210> 1897

<211> 49

<212> PRT

<213> Homo sapiens

<400> 1897

```

Met Leu Ile Val Gln Phe Ile Phe Glu Leu Val Ser Ser Ile Leu Val
 1             5             10             15
Ser Asn Val Lys Asp Met Leu Asp Phe Glu Ser Gly Phe Cys Ser Lys
             20             25             30
Ile Leu Ser Tyr Phe Phe Ser Ser Pro Arg Tyr Arg Leu Pro Phe Leu
             35             40             45             48
*
```

<210> 1898

<211> 52

<212> PRT

<213> Homo sapiens

<400> 1898

```

Met Thr Trp Ala Gly Leu Phe Leu Phe Leu Arg Val Gly Ser Pro Asn
 1             5             10             15
Arg Lys Trp Ala Ala Ser Gly Gly Ser Gly Gly Asp Gly Val Asp Gly
             20             25             30
Glu Asp Trp Ser Leu Ala Arg Ser His Pro Gln Ser Pro Leu Leu Leu
             35             40             45
Leu Leu Leu *
             50             51

```

<210> 1899

<211> 112

<212> PRT

<213> Homo sapiens

<400> 1899

```

Met Ala Ile Pro Ser Val Val Ile Ser Gly Leu Ala Val Leu Leu Val
 1          5          10          15
Ala Met Ala Leu Pro Ser Leu Ser Gly Ser Glu Ala Ile Lys Ser Met
          20          25          30
Thr Ile Pro Gly Leu Val Val Pro Thr Val Val Arg Phe Met Ala Val
          35          40          45
Pro Gly Leu Ile Val Pro Ala Val Ala Lys Phe Thr Val Leu Pro Asp
          50          55          60
Leu Thr Val Pro Thr Glu Asp Lys Ser Leu Ala Val Pro Ser Leu Ile
          65          70          75          80
Ser Arg Ala Gly Asn Ser Val Pro Val Ser Ser Trp Asp Val Phe Gly
          85          90          95
Val Ala Lys Leu Ile Ala Lys Leu Gly Leu Leu Ala Ala Ile Val Ala
          100          105          110          112

```

<210> 1900
 <211> 128
 <212> PRT
 <213> Homo sapiens

```

<400> 1900
Met Arg Val Tyr Gly Thr Cys Thr Leu Val Leu Met Ala Leu Val Val
 1          5          10          15
Phe Val Gly Val Lys Tyr Val Asn Lys Leu Ala Leu Val Phe Leu Ala
          20          25          30
Cys Val Val Leu Ser Ile Leu Ala Ile Tyr Ala Gly Val Ile Lys Ser
          35          40          45
Ala Phe Asp Pro Pro Asp Ile Pro Val Cys Leu Leu Gly Asn Arg Thr
          50          55          60
Leu Ser Arg Arg Ser Phe Asp Ala Cys Val Lys Ala Tyr Gly Ile His
          65          70          75          80
Asn Asn Ser Ala Thr Ser Ala Leu Trp Gly Leu Phe Cys Asn Gly Ser
          85          90          95
Gln Pro Ser Ala Ala Cys Asp Glu Tyr Phe Ile Gln Asn Asn Val Thr
          100          105          110
Glu Ile Gln Gly Ile Pro Gly Ala Ala Ser Gly Val Phe Leu Glu Asn
          115          120          125          128

```

<210> 1901
 <211> 68
 <212> PRT
 <213> Homo sapiens

```

<400> 1901
Met Glu Leu Leu Lys Leu Leu Leu Thr Cys Phe Ser Glu Ala Met Tyr
 1          5          10          15
Leu Pro Pro Ala Pro Glu Ser Gly Ser Thr Asn Pro Trp Val Gln Phe
          20          25          30
Phe Cys Ser Thr Glu Asn Arg His Ala Leu Pro Leu Phe Thr Ser Leu

```

```

      35      40      45
Leu Asn Thr Val Cys Ala Tyr Asp Pro Val Glu Tyr Gly Ile Pro Tyr
   50      55      60
Asn His Leu Tyr
   65      68

```

```

<210> 1902
<211> 127
<212> PRT
<213> Homo sapiens

```

```

      <400> 1902
Met Tyr Phe Ser Ser Leu Phe Pro Tyr Val Val Leu Ala Cys Phe Leu
  1      5      10      15
Val Arg Gly Leu Leu Arg Gly Ala Val Asp Gly Ile Leu His Met
      20      25      30
Phe Thr Pro Lys Leu Asp Lys Met Leu Asp Pro Gln Val Trp Arg Glu
      35      40      45
Ala Ala Thr Gln Val Phe Ser Ala Leu Gly Leu Gly Phe Gly Gly Val
      50      55      60
Ile Ala Phe Ser Ser Tyr Asn Lys Gln Asp Asn Asn Cys His Phe Asp
      65      70      75      80
Ala Ala Leu Val Ser Phe Ile Asn Phe Phe Thr Ser Val Leu Ala Thr
      85      90      95
Leu Val Val Phe Ala Val Leu Gly Phe Lys Ala Asn Ile Met Asn Glu
      100      105      110
Lys Cys Val Val Glu Asn Ala Glu Lys Ile Leu Gly Tyr Arg Val
      115      120      125      127

```

```

<210> 1903
<211> 83
<212> PRT
<213> Homo sapiens

```

```

      <400> 1903
Met Trp Lys Phe Val Ser Pro Leu Cys Met Ala Val Leu Thr Thr Ala
  1      5      10      15
Ser Ile Ile Gln Leu Gly Val Thr Pro Pro Gly Tyr Ser Ala Trp Ile
      20      25      30
Lys Glu Glu Ala Ala Glu Arg Tyr Leu Tyr Phe Pro Asn Trp Ala Met
      35      40      45
Ala Pro Leu Ile Thr Leu Ile Val Val Ala Thr Leu Pro Ile Pro Val
      50      55      60
Val Phe Val Leu Arg His Phe His Leu Ile Cys Asp Gly Ser Asn Thr
      65      70      75      80
Pro Cys Ile
      83

```

```

<210> 1904
<211> 129
<212> PRT

```

<213> Homo sapiens

<400> 1904

```

Met Lys Met Phe Val Ala His Gly Phe Tyr Ala Ala Lys Phe Val Val
 1          5          10          15
Ala Ile Gly Ser Val Ala Gly Leu Thr Val Ser Leu Leu Gly Ser Leu
          20          25          30
Phe Pro Met Pro Arg Val Ile Tyr Ala Met Ala Gly Asp Gly Leu Leu
          35          40          45
Phe Arg Phe Leu Ala His Val Ser Ser Tyr Thr Glu Thr Pro Val Val
          50          55          60
Ala Cys Ile Val Ser Gly Phe Leu Ala Ala Leu Leu Ala Leu Leu Val
          65          70          75          80
Ser Leu Arg Asp Leu Ile Glu Met Met Ser Ile Gly Thr Leu Leu Ala
          85          90          95
Tyr Thr Leu Val Ser Val Cys Val Leu Leu Leu Arg His His Pro Glu
          100          105          110
Ser Asp Ile Asp Gly Phe Val Lys Phe Leu Ser Glu Glu His Thr Cys
          115          120          125
Ser
129

```

<210> 1905

<211> 93

<212> PRT

<213> Homo sapiens

<400> 1905

```

Met Gly Leu Leu Met Met Ile Leu Gly Gln Ile Phe Leu Asn Gly Asn
 1          5          10          15
Gln Ala Lys Glu Ala Glu Ile Trp Glu Met Leu Trp Arg Met Gly Val
          20          25          30
Gln Arg Glu Arg Arg Leu Ser Ile Phe Gly Asn Pro Lys Arg Leu Leu
          35          40          45
Ser Val Glu Phe Val Trp Gln Arg Tyr Leu Asp Tyr Arg Pro Val Thr
          50          55          60
Asp Cys Lys Pro Val Glu Tyr Glu Phe Phe Trp Gly Pro Arg Ser His
          65          70          75          80
Leu Glu Thr Thr Lys Met Lys Ile Leu Lys Phe Met Ala
          85          90          93

```

<210> 1906

<211> 66

<212> PRT

<213> Homo sapiens

<400> 1906

```

Met Thr Ile Gly Phe Leu Phe Pro Met Leu Ser Ile Ala Tyr Leu Ile
 1          5          10          15
Ser Pro Arg Ser Asn Leu Gly Leu Phe Ile Lys Lys Pro Phe Ile Lys
          20          25          30
Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu Ser Met Leu Leu

```

35 40 45
 Leu Ala Ser Gln His Ile Val Arg Thr Asp Leu His Val Gln Gly Pro
 50 55 60
 Cys Ile
 65 66

<210> 1907
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1907
 Met Leu Gln Leu Gly Pro Phe Leu Tyr Trp Thr Phe Leu Ala Ala Phe
 1 5 10 15
 Glu Gly Thr Val Phe Phe Phe Gly Thr Tyr Phe Leu Phe Gln Thr Ala
 20 25 30
 Ser Leu Glu Asn Gly Lys Val Tyr Gly Asn Trp Thr Phe Gly Thr
 35 40 45
 Ile Val Phe Thr Val Leu Val Phe Thr Val Thr Leu Lys Leu Ala Leu
 50 55 60
 Asp Thr Arg Phe Trp Thr Trp Ile Asn His Phe Val Ile Trp Gly Ser
 65 70 75 80
 Leu Ala Phe Tyr Val Phe Phe Ser Phe Phe Trp Gly Gly Ile Ile Trp
 85 90 95
 Pro Phe Leu Lys Gln Gln Arg Met Ala
 100 105

<210> 1908
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1908
 Met Gly Phe Leu Val Leu Lys Gln Pro Met Leu Val Ala Lys Val Phe
 1 5 10 15
 Pro Thr Leu Ala Gly Val Glu Ile Ile Leu Phe Thr Leu Lys Gly Phe
 20 25 30
 Pro Ile Leu Gly Ile Pro Val Gln Leu Pro Pro Thr Val *
 35 40 45

<210> 1909
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Met Ile Gln Ala Leu Gly Gly Phe Phe Thr Tyr Phe Val Ile Leu Ala
 1 5 10 15
 Glu Asn Gly Phe Leu Pro Ile His Leu Leu Gly Leu Arg Glu Asp Trp
 20 25 30

```

Asp Asp Arg Trp Ile Asn Asp Val Glu Asp Ser Tyr Gly Gln Gln Trp
      35          40          45
Thr Tyr Glu Gln Arg Lys Ile Val Glu Phe Thr Cys His Thr Ala Phe
      50          55          60
Phe Val Ser Ile Val Gly Val Gln Trp Ala Asp Leu Val Ile Cys Lys
      65          70          75          80
Thr Arg Arg Asn Ser Val Phe Gln Pro Gly Met Lys Asn Lys Ile Leu
      85          90          95
Ile Phe Gly Leu Phe Glu Glu Thr Ala Leu Ala Ala Phe Leu Ser Tyr
      100          105          110
Cys Pro Gly Met Gly Val Ala Leu Lys Met Tyr Pro Leu Lys Pro Thr
      115          120          125
Trp Arg Val Cys Ala Phe Pro Tyr Ser Leu Leu
      130          135          139

```

<210> 1910
 <211> 104
 <212> PRT
 <213> Homo sapiens

```

<400> 1910
Met Glu Gly Trp Phe Ala Val Leu Ser Thr Ala Asn Asp Val Leu Gly
  1          5          10          15
Ala Pro Trp Asn Trp Leu Tyr Phe Ile Pro Leu Leu Ile Ile Gly Ala
      20          25          30
Phe Phe Val Pro Thr Leu Val Leu Gly Val Leu Ser Gly Asp Phe Ala
      35          40          45
Lys Glu Arg Glu Arg Val Glu Thr Arg Arg Ala Phe Met Lys Leu Arg
      50          55          60
Arg Gln Gln Gln Ile Glu Arg Glu Leu Asn Gly Tyr Arg Val Trp Ile
      65          70          75          80
Ala Lys Ala Glu Glu Val Met Leu Ala Glu Glu Asn Leu Tyr Pro Ser
      85          90          95
His Ala Arg Pro Val Asn Pro *
      100          103

```

<210> 1911
 <211> 116
 <212> PRT
 <213> Homo sapiens

```

<400> 1911
Met Ala Val Ala Val Leu Leu Cys Gly Cys Ile Val Ala Thr Val Ser
  1          5          10          15
Phe Phe Trp Glu Glu Ser Leu Thr Gln His Val Ala Gly Leu Leu Phe
      20          25          30
Leu Met Thr Gly Ile Phe Cys Thr Ile Ser Leu Cys Thr Tyr Ala Ala
      35          40          45
Ser Ile Ser Tyr Asp Leu Asn Arg Leu Pro Lys Leu Ile Tyr Ser Leu
      50          55          60
Pro Ala Asp Val Glu His Gly Tyr Ser Trp Ser Ile Phe Cys Ala Trp
      65          70          75          80
Cys Ser Leu Gly Phe Ile Val Ala Ala Gly Gly Leu Cys Ile Ala Tyr

```


				85					90				95		
Pro	Phe	Ile	Ser	Arg	Thr	Lys	Ile	Ala	Gln	Leu	Lys	Ser	Gly	Arg	Asp
			100					105					110		
Ser	Thr	Val	*												
		115													

<210> 1912
 <211> 105
 <212> PRT
 <213> Homo sapiens

<400> 1912															
Met	Gln	Leu	Lys	Thr	Pro	Ser	Gly	Gln	Val	Leu	Ser	Phe	Cys	Ile	Leu
1				5					10					15	
Gln	Leu	Phe	Pro	Phe	Thr	Ser	Glu	Ser	Lys	Arg	Met	Gly	Val	Ile	Val
			20					25					30		
Arg	Asp	Glu	Ser	Thr	Ala	Glu	Ile	Thr	Phe	Tyr	Met	Lys	Gly	Ala	Asp
		35					40					45			
Val	Ala	Met	Ser	Pro	Ile	Val	Gln	Tyr	Asn	Asp	Trp	Leu	Glu	Glu	Glu
	50					55				60					
Cys	Gly	Asn	Met	Ala	Arg	Glu	Gly	Leu	Arg	Thr	Leu	Val	Val	Ala	Lys
65					70					75					80
Lys	Ala	Leu	Thr	Glu	Gln	Tyr	Gln	Asp	Phe	Glu	Ser	Arg	Tyr	Thr	
				85				90						95	
Gln	Ala	Lys	Leu	Ser	Met	His	Thr	Lys							
			100					105							

<210> 1913
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1913															
Met	Leu	Val	Tyr	Val	Trp	Ser	Arg	Arg	Ser	Pro	Arg	Val	Arg	Val	Asn
1				5					10					15	
Phe	Phe	Gly	Leu	Leu	Thr	Phe	Gln	Ala	Pro	Phe	Leu	Pro	Trp	Ala	Leu
			20					25					30		
Met	Gly	Phe	Ser	Leu	Leu	Leu	Gly	Asn	Ser	Ile	Leu	Val	Asp	Leu	Leu
		35					40					45			
Gly	Ile	Ala	Val	Gly	His	Ile	Tyr	Tyr	Phe	Leu	Glu	Asp	Val	Phe	Pro
	50					55				60					
Asn	Gln	Pro	Gly	Arg	Gln	Glu	Ala	Pro	Ala	Asp	Pro	Trp	Ala	Phe	Leu
65					70					75					80
Lys	Leu	Leu	Leu	Gly	Cys	Pro	Cys	Arg	Arg	Pro	Gln	Leu	Thr	Cys	Pro
				85				90						95	
Ser	Leu	Arg	Asn	Ser	Gln	Asp	Pro	Ile	Cys	His	Pro	Arg	Ser	Ser	Asp
			100					105					110		
Pro	His	Pro	Gly	Ala	Arg	Pro	Lys	Arg	Leu	Leu	Ala	Ala	Ser	Ile	Leu
		115					120					125			
Pro	Met	Thr	Pro	Thr	Trp	Gly	Arg	Lys	Asn	Pro	Ser	*			
			130				135				140				

<210> 1914
 <211> 556
 <212> PRT
 <213> Homo sapiens

<400> 1914
 Met Lys Lys Val Leu Leu Leu Leu Trp Lys Thr Val Leu Cys Thr Leu
 1 5 10 15
 Gly Gly Phe Glu Glu Leu Gln Ser Met Lys Ala Glu Lys Arg Ser Ile
 20 25 30
 Leu Gly Leu Pro Pro Leu Pro Glu Asp Ser Ile Lys Val Ile Arg Asn
 35 40 45
 Met Arg Ala Ala Ser Pro Pro Ala Ser Ala Ser Asp Leu Ile Glu Gln
 50 55 60
 Gln Gln Lys Arg Gly Arg Arg Glu His Lys Ala Leu Ile Lys Gln Asp
 65 70 75 80
 Asn Leu Asp Ala Phe Asn Glu Arg Asp Pro Tyr Lys Ala Asp Asp Ser
 85 90 95
 Arg Glu Glu Glu Glu Glu Asn Asp Asp Asp Asn Ser Leu Glu Gly Glu
 100 105 110
 Thr Phe Pro Leu Glu Arg Asp Glu Val Met Pro Pro Pro Leu Gln His
 115 120 125
 Pro Gln Thr Asp Arg Leu Thr Cys Pro Lys Gly Leu Pro Trp Ala Pro
 130 135 140
 Lys Val Arg Glu Lys Asp Ile Glu Met Phe Leu Glu Ser Ser Arg Ser
 145 150 155 160
 Lys Phe Ile Gly Tyr Thr Leu Gly Ser Asp Thr Asn Thr Val Val Gly
 165 170 175
 Leu Pro Arg Pro Ile His Glu Ser Ile Lys Thr Leu Lys Gln His Lys
 180 185 190
 Tyr Thr Ser Ile Ala Glu Val Gln Ala Gln Met Glu Glu Glu Tyr Leu
 195 200 205
 Arg Ser Pro Leu Ser Gly Gly Glu Glu Glu Val Glu Gln Val Pro Ala
 210 215 220
 Glu Thr Leu Tyr Gln Gly Leu Leu Pro Ser Leu Pro Gln Tyr Met Ile
 225 230 235 240
 Ala Leu Leu Lys Ile Leu Leu Ala Ala Ala Pro Thr Ser Lys Ala Lys
 245 250 255
 Thr Asp Ser Ile Asn Ile Leu Ala Asp Val Leu Pro Glu Glu Met Pro
 260 265 270
 Thr Thr Val Leu Gln Ser Met Lys Leu Gly Val Asp Val Asn Arg His
 275 280 285
 Lys Glu Val Ile Val Lys Ala Ile Ser Ala Val Leu Leu Leu Leu
 290 295 300
 Lys His Phe Lys Leu Asn His Val Tyr Gln Phe Glu Tyr Met Ala Gln
 305 310 315 320
 His Leu Val Phe Ala Asn Cys Ile Pro Leu Ile Leu Lys Phe Phe Asn
 325 330 335
 Gln Asn Ile Met Ser Tyr Ile Thr Ala Lys Asn Ser Ile Ser Val Leu
 340 345 350
 Asp Tyr Pro His Cys Val Val His Glu Leu Pro Glu Leu Thr Ala Glu
 355 360 365
 Ser Leu Glu Ala Gly Asp Ser Asn Gln Phe Cys Trp Arg Asn Leu Phe
 370 375 380
 Ser Cys Ile Asn Leu Leu Arg Ile Leu Asn Lys Leu Thr Lys Trp Lys
 385 390 395 400
 His Ser Arg Thr Met Met Leu Val Val Phe Lys Ser Ala Pro Ile Leu

```

          405          410          415
Lys Arg Ala Leu Lys Val Lys Gln Ala Met Met Gln Leu Tyr Val Leu
          420          425          430
Lys Leu Leu Lys Val Gln Thr Lys Tyr Leu Gly Arg Gln Trp Arg Lys
          435          440          445
Ser Asn Met Lys Thr Met Ser Ala Ile Tyr Gln Lys Val Arg His Arg
          450          455          460
Leu Asn Asp Asp Trp Ala Tyr Gly Asn Asp Leu Asp Ala Arg Pro Trp
465          470          475          480
Asp Phe Gln Ala Glu Glu Cys Ala Leu Arg Ala Asn Ile Glu Arg Phe
          485          490          495
Asn Ala Arg Arg Tyr Asp Arg Ala His Ser Asn Pro Asp Phe Leu Pro
          500          505          510
Val Asp Asn Cys Leu Gln Ser Val Leu Gly Gln Arg Val Asp Leu Pro
          515          520          525
Glu Asp Phe Gln Met Asn Tyr Asp Leu Trp Leu Glu Arg Glu Val Phe
          530          535          540
Ser Lys Pro Ile Ser Trp Glu Glu Leu Leu Gln *
545          550          555

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<210> 1915
<211> 212
<212> PRT
<213> Homo sapiens

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          <400> 1915
Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys
  1          5          10          15
Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr
          20          25          30
Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val
          35          40          45
Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe
          50          55          60
Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Val Ile Gly
          65          70          75          80
Ser Tyr Ser Val Val Leu Ala Ile Asp Ser Tyr Trp Ser Thr Ser Leu
          85          90          95
Ser Tyr Ile Thr Leu Asn Val Leu Lys Arg Ala Leu Asn Lys Asp Phe
          100          105          110
His Arg Ala Phe Thr Asn Val Pro Phe Gln Thr Asn Asp Phe Ile Ile
          115          120          125
Leu Ala Val Trp Gly Met Leu Ala Val Ser Gly Ile Thr Leu Gln Ile
          130          135          140
Arg Arg Glu Arg Gly Arg Pro Phe Phe Pro Pro His Pro Tyr Lys Leu
145          150          155          160
Trp Lys Gln Glu Arg Glu Arg Arg Val Thr Asn Ile Leu Asp Pro Ser
          165          170          175
Tyr His Ile Pro Pro Leu Arg Glu Arg Leu Tyr Gly Arg Leu Thr Gln
          180          185          190
Ile Lys Gly Leu Phe Gln Lys Glu Gln Pro Ala Gly Glu Arg Thr Pro
          195          200          205
Leu Leu Leu *
210 211

```

<210> 1916
 <211> 172
 <212> PRT
 <213> Homo sapiens

<400> 1916
 Met Cys Thr Pro Val Arg Val Ser Ile Val Cys Val Met Gly Ala Val
 1 5 10 15
 Gly Ala Val Trp Thr Ala Pro Leu Pro Leu Pro Trp Ala Pro Thr Pro
 20 25 30
 Ser Ile His Leu Arg Glu Glu Gly Ala Ala Phe Pro Phe Cys Gly Val
 35 40 45
 Cys Val Leu Arg Pro Arg Arg Ser Lys Trp Arg Ser Trp Asp Val Asn
 50 55 60
 Leu Gly Pro Arg Arg Arg Gly Leu Leu Gly Cys Gly Pro Cys Pro Ser
 65 70 75 80
 Gly Lys Pro Arg Val His Leu Gln Arg Thr Arg Ser Gly Ala Gly Ala
 85 90 95
 Glu Ala Gly Gly Leu Pro Thr Arg Gly Ser Met Arg Gly Cys Pro Phe
 100 105 110
 Leu Gly Ser Ser Ala Ala Lys Cys Ser Leu Leu Leu Arg Pro Pro Ser
 115 120 125
 Arg Gly Glu Ala Ser Pro Trp Leu Pro Glu Phe Met Thr His Pro Val
 130 135 140
 His His Gln Gln Leu Ala Cys Gly Ser Gly Trp Leu Gly Thr Lys His
 145 150 155 160
 Pro Gly Gly Thr Cys Ala Leu Gly Ser Thr Met *
 165 170 171

<210> 1917
 <211> 72
 <212> PRT
 <213> Homo sapiens

<400> 1917
 Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1 5 10 15
 His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
 20 25 30
 Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
 35 40 45
 Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
 50 55 60
 Leu Ser Ile Val Ser Ile Ser *
 65 70 71

<210> 1918
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1918

```

Met Thr Ser Leu Met Phe Leu Trp Arg Ala Leu Leu Glu Thr Ile Ser
 1          5          10          15
Thr Asn Met Thr Phe Ser Leu Pro Leu Ala Ala Val Val Arg Ala Trp
          20          25          30
Met Lys Pro Thr Gly Ser Gly Met Phe Leu Tyr Gln Tyr Leu Pro Val
          35          40          45
Val Lys Ser Ser Gln Ala Val Phe Pro Val Val Ile Glu Ile Ser Ser
          50          55          60
Ile Ser Gly Ser Ile Leu Pro Lys Phe Pro Met Leu Ser Leu Met Ser
65          70          75          80
Leu His Thr Gly Ser Ile Ile *
          85          87

```

<210> 1919

<211> 54

<212> PRT

<213> Homo sapiens

<400> 1919

```

Met Leu Gly Pro Phe Ser Ser Leu Phe Leu Leu Leu Trp Ser Phe Thr
 1          5          10          15
Arg Phe Cys Ile His Phe Tyr Leu Ala Pro Ser His His Cys Leu Thr
          20          25          30
Ala Ala Leu Leu Pro Phe Ser Leu His Pro Leu Tyr Ser Ser Leu Ser
          35          40          45
Leu Ser Arg Ser Gln *
          50          53

```

<210> 1920

<211> 114

<212> PRT

<213> Homo sapiens

<400> 1920

```

Met His Pro Pro Leu Thr Pro Pro Thr Pro Leu Cys Leu Trp Leu Arg
 1          5          10          15
Leu Leu Lys Ala Gln Ile Leu Ser Tyr Pro Val Pro Arg Phe Glu Thr
          20          25          30
His Ser Leu Ile Ser Arg Cys Ser Gln Val Pro Pro Thr Phe Leu Trp
          35          40          45
Asp Ile Lys Lys Gly Val Arg Gly Gln Arg Glu Pro Ser Gly Pro Leu
          50          55          60
Leu Pro Tyr Thr Leu His Cys Pro Phe Ser Pro His Gln Asn Ala Gln
          65          70          75          80
Arg Arg Cys Asp Asp Ala Thr Glu Asp Tyr Ala Thr Trp Ser Asn Arg
          85          90          95
Ser Gly Gln His Asp Gln Leu Ser Arg Gly Cys Leu Leu Pro Phe Leu
          100          105          110
Leu *
113

```

<210> 1921
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1921
 Met Val Tyr Leu Tyr Ile Tyr Leu Asp Leu Phe Gln Phe Leu Ile Thr
 1 5 10 15
 Val Leu Gln Gly Phe Leu Phe Val Phe Glu Met Glu Phe His Ser Cys
 20 25 30
 Arg Pro Gly Gln Ser Ala Met Met Gln Ser Gln Leu Ala Ala Thr Ser
 35 40 45
 Ala Ser Arg Val Gln Val Ile Leu Val Val Ser Ala Pro Gln Glu Ala
 50 55 60
 Gly Thr Thr Gly Ala Arg His His Val Gln Leu Ile Phe Val Phe Leu
 65 70 75 80
 Leu Glu Met Gly Phe Cys His Val Gly Gln Ala Gly Leu Glu Leu Leu
 85 90 95
 Asn Ser Gly Asp Pro Pro Thr Ser Ala Ser Gln Ser Ala Gly Ile Arg
 100 105 110
 Gly Val Asn His Cys Ala Pro Pro Ile Asn Ser Leu Leu Thr Phe Gln
 115 120 125
 Ser Phe Ile His Leu Glu Cys Ile Val Ile *
 130 135 138

<210> 1922
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1922
 Met Trp Leu Ser Phe Pro Lys Leu Phe Ile Pro Leu Ser Ile Phe Leu
 1 5 10 15
 Val Phe Leu Leu Met Ala Asn Ser Phe Arg Ile Phe Lys Ser Lys Asn
 20 25 30
 Ile Phe Ile Ser Leu Leu Phe Trp Asn Asp Thr Phe Ala Gly Cys Ile
 35 40 45
 Phe Leu Thr *
 50 51

<210> 1923
 <211> 71
 <212> PRT
 <213> Homo sapiens

<400> 1923
 Met Val Ser His Cys Ile Phe Cys Asn Leu Leu Phe Ser Leu Leu Thr
 1 5 10 15
 Val Phe Leu Arg Leu Leu His Val Asp Thr Cys His Leu Phe Ile Arg
 20 25 30
 Phe Asn Cys Cys Lys Ile Phe Phe Cys Gln Asp Ile Leu Gln Leu Ile

```

      35          40          45
Tyr Leu Leu Phe Phe Leu Trp Thr Phe Lys Leu Phe Ser Gly Phe Thr
      50          55          60
Leu Lys Ile Ile Gln Gln *
      65          70

```

<210> 1924
 <211> 187
 <212> PRT
 <213> Homo sapiens

```

      <400> 1924
Met Leu Phe Ile Gln Tyr Leu Leu Pro Cys Leu Leu Leu Ser Ala Glu
  1          5          10          15
Leu Ser Gly Thr Phe Phe Leu Tyr Asn Thr Cys His Leu His Val Pro
      20          25          30
Cys Cys His Ser Leu Val Pro Thr Gly Pro Pro Ser Leu Ser Ser His
      35          40          45
Phe Gln Ser Arg Gly Leu Cys Ala Pro Cys Ala Ser Ile Ala Asp Ser
      50          55          60
Gly Ile Ala Asp Ser Gly Gly Asn Asn Leu Asn Phe Val Gly Ala Gly
      65          70          75          80
Gly Val Ala Ser Gly His Leu Leu Ser Pro Leu Leu Gly Pro Gln Ser
      85          90          95
Ser Pro Cys Pro His Cys Pro Arg Gly Gly Arg Leu Pro Ser Gln Pro
      100          105          110
Leu Pro Leu Cys Ser Ala Arg Ser Trp Ala Gln Glu Ala Leu Arg Leu
      115          120          125
Pro Ser Ser Ala Gln Leu Cys Pro Cys His Pro Leu Pro Arg Gly Leu
      130          135          140
Gly Pro Val Ser Pro Ser Gly Leu Leu Ala Asn Ile Ser Tyr Arg His
      145          150          155          160
Asn Trp Leu Leu Gly Ser Trp Pro Gly Trp Leu Ile Trp Gly Gly Lys
      165          170          175
Asn Arg Gly Gly Leu Asn Ser Phe Leu Ala *
      180          185 186

```

<210> 1925
 <211> 50
 <212> PRT
 <213> Homo sapiens

```

      <400> 1925
Met Leu Ser Phe Leu Val Val Phe Gln Leu Val Leu Leu Arg Phe Ser
  1          5          10          15
Gly Arg His Ser His His Gln Leu Ile Thr Ile Thr Phe Pro Leu Phe
      20          25          30
Gln Trp Leu Tyr Phe Phe Phe Phe Met Phe Phe Cys Thr Gly Trp Lys
      35          40          45
Phe *
      49

```

<210> 1926
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1926
 Met Gly Arg Tyr Arg Cys Ala Ser Leu Leu Phe Cys Phe Leu Leu Leu
 1 5 10 15
 Phe Phe Phe Phe Trp Leu Trp Val Arg Asp Ile Phe Lys Leu Ala Gln
 20 25 30
 Lys Gly Arg Gly Trp Ser Leu Asp Pro His Val Ser Ile Thr *
 35 40 45 46

<210> 1927
 <211> 149
 <212> PRT
 <213> Homo sapiens

<400> 1927
 Met Ala Thr Gly Leu Leu Ala Phe Leu Gly Leu Ala Ala Gly Gly Gln
 1 5 10 15
 Thr Leu Cys Pro Ala Gly Glu Leu Pro Gly His Ala Arg Ala Gln Ala
 20 25 30
 Ser Gly Ala Pro Gly Ser Val Leu Ile Ala Val Pro Gly Arg Arg Arg
 35 40 45
 Val His Thr Cys Gly Pro Gly Pro Ala Ala Pro Ser Thr Arg Gly Glu
 50 55 60
 Cys Pro Pro Pro Ala Leu Gly His Thr Arg Pro Ala Arg Pro Arg Pro
 65 70 75 80
 Val Leu Leu Arg Pro Ser Cys Ser Pro Gly Ala Arg Gly Ala Gly Thr
 85 90 95
 Trp Cys Cys Ala Pro Ala Thr Gly His Ser Ala Pro Arg Gly Cys Pro
 100 105 110
 Pro Ala Arg Ala Ala Pro Thr Gly Ser Ala Thr Pro Ala Pro Pro Pro
 115 120 125
 Ala Ala Cys Ala Ala Phe His Ser Ala Trp Ser Val Pro Pro Ala Gly
 130 135 140
 Arg Gln Gln Gly *
 145 148

<210> 1928
 <211> 446
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Met Ser Leu Trp Asn Gln Leu Val Val Pro Val Leu Phe Met Val Phe
 1 5 10 15
 Trp Leu Val Leu Phe Ala Leu Gln Ile Tyr Ser Tyr Phe Ser Thr Arg
 20 25 30
 Asp Gln Pro Ala Ser Arg Glu Arg Leu Leu Phe Leu Phe Leu Thr Ser


```
<210> 1929
<211> 120
<212> PRT
<213> Homo sapiens
```

<400> 1929

```

Met Val Leu Pro Leu Pro Trp Leu Ser Arg Tyr His Phe Leu Arg Leu
 1          5          10          15
Leu Leu Pro Ser Trp Ser Leu Ala Pro Gln Gly Ser His Gly Cys Cys
          20          25          30
Ser Gln Asn Pro Lys Ala Ser Met Glu Glu Gln Thr Asn Ser Arg Gly
          35          40          45
Asn Gly Lys Met Thr Ser Pro Pro Arg Gly Pro Gly Thr His Arg Thr
          50          55          60
Ala Glu Leu Ala Arg Ala Glu Glu Leu Leu Glu Gln Gln Leu Glu Leu
 65          70          75          80
Tyr Gln Ala Leu Leu Glu Gly Gln Glu Gly Ala Trp Glu Ala Gln Ala
          85          90          95
Leu Val Leu Lys Ile His Lys Leu Lys Glu Gln Met Arg Arg His Gln
          100          105          110
Glu Ser Leu Gly Gly Gly Ala *
          115          119

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<210> 1930

<211> 122

<212> PRT

<213> Homo sapiens

<400> 1930

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Met Thr Trp Leu Val Leu Leu Gly Thr Leu Leu Cys Met Leu Arg Val
 1          5          10          15
Gly Leu Gly Thr Pro Asp Ser Glu Gly Phe Pro Pro Arg Ala Leu His
          20          25          30
Asn Cys Pro Tyr Lys Cys Ile Cys Ala Ala Asp Leu Leu Ser Cys Thr
          35          40          45
Gly Leu Gly Leu Gln Asp Val Pro Ala Glu Leu Pro Ala Gly Thr Ala
          50          55          60
Asp Leu Asp Leu Ser His Asn Ala Leu Gln Arg Met Arg Pro Gly Trp
 65          70          75          80
Leu Ala Pro Leu Phe Gln Leu Arg Ala Leu His Leu Asp His Asn Glu
          85          90          95
Leu His Ala Leu Asp Arg Gly Val Phe Val Asn Ala Ser Gly Leu Arg
          100          105          110
Leu Leu Asp Leu Ser Ser Asn Ala Glu Phe
          115          120          122

```

<210> 1931

<211> 73

<212> PRT

<213> Homo sapiens

<400> 1931

```

Met Ala Arg Ala Pro Ser Val Ala Leu Ala Gln Leu Trp Leu Ile Cys
 1          5          10          15
Leu Cys Pro Glu Ser Leu Ala Ser Phe Val Gln Ala Val Pro Trp Lys
          20          25          30
Val Leu Gln Pro Ser Ser Asn Arg Ser Thr Asp Cys Ser Pro His Met

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      35          40          45
Arg Pro Thr Cys Glu Thr Leu Gly Ser Arg Lys Ala Gln Asp Leu Gly
      50          55          60
Ala Gly Tyr Tyr Val Ser Val His *
      65          70          72

```

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<210> 1932
<211> 68
<212> PRT
<213> Homo sapiens

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```

      <400> 1932
Met Lys Thr Val Phe Thr Lys Lys Leu Thr Ala Ala Leu Leu Ile Thr
  1          5          10          15
Val Pro Asn Cys Lys Gln Pro Arg Cys Pro Ser Met Gly Glu Trp Leu
      20          25          30
Asn Lys Leu Gln Tyr Ile His Thr Met Lys Tyr Tyr Ser Thr Ile Lys
      35          40          45
Val Asn Tyr Trp Pro Gly Thr Val Ala His Thr Cys Asn Pro Ser Thr
      50          55          60
Leu Gly Gly *
      65          67

```

```

<210> 1933
<211> 47
<212> PRT
<213> Homo sapiens

```

```

      <400> 1933
Met Gln Gln Arg Lys Met Arg Leu Val Trp Arg Ser Tyr Trp Ser Met
  1          5          10          15
Val Gln Thr Pro Met Leu Trp Met Ala Thr Glu Ile Pro His Phe Thr
      20          25          30
Gly Gln Pro Leu Arg Thr Met Leu Ser Val Cys Gly Leu Ser *
      35          40          45          46

```

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<210> 1934
<211> 86
<212> PRT
<213> Homo sapiens

```

```

      <400> 1934
Met Cys Trp Ser Pro Leu Thr Gly Trp Ala Leu Ser Ser Ser Arg Cys
  1          5          10          15
Arg Leu Ser Trp Pro Leu Thr Ser Phe Gly Ser Thr Ala Ser Cys Arg
      20          25          30
Pro Thr Thr Gly Trp Arg Gly Leu Met Trp Leu Gln Ala Leu Ser Ser
      35          40          45
Ser Gly Tyr Pro Ser Leu Cys Thr Leu Tyr Ser Glu Leu Leu Val Gln
      50          55          60

```

Ala Val His Arg Lys Ala Gly Asp Thr Glu Val Gln Gln Ser Leu Leu
 65 70 75 80
 Leu Leu Leu Lys Lys *
 85

<210> 1935
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1935
 Met Gly Glu Val Pro Lys Ala His Arg Leu Lys Leu Arg Trp Leu Phe
 1 5 10 15
 Pro Val Ser Leu Cys Arg Ala Pro Leu Leu Ser Thr Ala His Leu Ala
 20 25 30
 Leu Leu Leu Pro Cys Cys Leu Leu Cys Ser Ser Cys Tyr Tyr Phe Pro
 35 40 45
 Phe Leu Ser Leu Leu Pro Pro Trp Pro Asn Leu Phe His Arg Asn Ile
 50 55 60
 Thr Gly Pro Ala Arg His Ser Gly Ser Pro Leu *
 65 70 75

<210> 1936
 <211> 49
 <212> PRT
 <213> Homo sapiens

<400> 1936
 Met Leu Leu Gln Thr Phe Val Thr Thr Cys Ile Ser Tyr Phe Tyr Trp
 1 5 10 15
 His Phe Asn Phe Val Trp Ile Gln Phe Asn Val Cys Arg Val Leu Ser
 20 25 30
 Phe Gln Pro Glu Arg Leu Thr Leu Ala Phe Leu Ile Gly Gln Val Tyr
 35 40 45 48
 *

<210> 1937
 <211> 76
 <212> PRT
 <213> Homo sapiens

<400> 1937
 Met Lys Gly Arg Phe Leu Phe Pro Leu Arg Leu Leu Leu Trp Met Cys
 1 5 10 15
 Leu His Leu Gln Arg Gln Ala Ser Glu Leu His Gln Pro Ser Met Pro
 20 25 30
 Gly Cys Pro Leu Thr Ser Ser Ser Arg Leu Phe Asp Asn Ala Gln Met
 35 40 45
 His Gln Phe Leu Asn Ile His Val Lys Phe Glu Asn Cys Thr Phe Gly

50 55 60
 Glu Ile Lys Phe Tyr Ile Gln Leu Ala Lys Lys Lys
 65 70 75 76

<210> 1938
 <211> 191
 <212> PRT
 <213> Homo sapiens

<400> 1938
 Met Ala Asp Glu Lys Thr Phe Arg Ile Gly Phe Ile Val Leu Gly Leu
 1 5 10 15
 Phe Leu Leu Ala Leu Gly Thr Phe Leu Met Ser His Asp Arg Pro Gln
 20 25 30
 Val Tyr Gly Thr Phe Tyr Ala Met Gly Ser Val Met Val Ile Gly Gly
 35 40 45
 Ile Ile Trp Ser Met Cys Gln Cys Tyr Pro Lys Ile Thr Phe Val Pro
 50 55 60
 Ala Asp Ser Asp Phe Gln Gly Ile Leu Ser Pro Lys Ala Met Gly Leu
 65 70 75 80
 Leu Glu Asn Gly Leu Ala Ala Glu Met Lys Ser Pro Ser Pro Gln Pro
 85 90 95
 Pro Tyr Val Arg Leu Trp Glu Glu Ala Ala Tyr Asp Gln Ser Leu Pro
 100 105 110
 Asp Phe Ser His Ile Gln Met Lys Val Met Ser Tyr Ser Glu Asp His
 115 120 125
 Arg Ser Leu Leu Ala Pro Glu Met Gly Gln Pro Lys Leu Gly Thr Ser
 130 135 140
 Asp Gly Gly Glu Gly Gly Pro Gly Asp Val Gln Ala Trp Met Glu Ala
 145 150 155 160
 Ala Val Val Ile His Lys Gly Leu Asn Glu Ser Glu Gly Glu Arg Arg
 165 170 175
 Leu Thr Gln Ser Trp Pro Gly Pro Leu Ala Cys Pro Gln Gly Pro
 180 185 190 191

<210> 1939
 <211> 82
 <212> PRT
 <213> Homo sapiens

<400> 1939
 Met Val Arg Ser Ile Arg Leu Leu Phe Phe Phe Gly Trp Gly Phe Ser
 1 5 10 15
 Thr Thr Gln Gln Pro Ser Leu Cys Gln Asn Ser Leu Met Phe Pro Asp
 20 25 30
 Gly Ser Ser Phe Thr Pro Leu Ser Glu Ala Pro Lys Gly Ser Phe Pro
 35 40 45
 Gly Val Trp Thr Thr His Ser Ser Leu Ser Pro Asp Thr Pro Pro Pro
 50 55 60
 Trp Val His Ser Ala Gly Trp Val Gln Thr Lys Trp Asn Pro Trp Asn
 65 70 75 80
 Leu *
 81

<210> 1940
 <211> 101
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Met His Val Cys Leu His Ile Trp Gly Leu Gly Val Cys Val Phe Met
 1 5 10 15
 His Met Met Cys Ala Cys Val Gly Val Tyr Val Cys Pro Phe Met Arg
 20 25 30
 Tyr Gly Met Gln Ile Cys Ala Cys Ile His Ala His Ser Cys Ser Ala
 35 40 45
 Cys Val Cys Ser Cys Ile Trp Cys Met His Gly Cys Ser Tyr Leu Trp
 50 55 60
 Gly Thr Gly Ile Met His Val Cys Ser Ser Val Trp Gly Val Gly Ile
 65 70 75 80
 Pro Gly Leu Trp Pro Glu Ala Pro Leu Gln Asp Thr Ala Pro Cys Arg
 85 90 95
 Leu Pro Arg Gly *
 100

<210> 1941
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 1941
 Met Lys Ala Ser Val Leu Ser Pro Ser Phe Leu Leu Val Leu Trp Ser
 1 5 10 15
 Cys Phe Leu Ser Cys Ser Cys Met Glu Pro Gln Ser Gly Phe Pro Arg
 20 25 30
 Pro Ser Cys Phe Thr Val Gly Phe Leu Leu Arg Arg Arg Thr Lys Thr
 35 40 45
 Arg Arg Gln Lys Ala Thr Asn Thr Val Lys Met Arg Thr Thr Lys Ile
 50 55 60
 Leu Lys Ile Lys Ile Asp Lys Arg Arg Trp Pro Thr Arg Met Ser Ser
 65 70 75 80
 Lys Trp Asn Pro Lys Glu Trp *
 85 87

<210> 1942
 <211> 46
 <212> PRT
 <213> Homo sapiens

<400> 1942
 Met Arg Ser Met Gly Phe Arg Ala Gln Gly Leu Pro Phe Gly Ile Arg
 1 5 10 15
 Gln Thr Trp Leu Arg Ile Leu Asp Leu Leu Leu Thr Cys Thr Leu Pro

20 25 30
Phe Gly Ser Arg Asp Val Lys Trp Arg Cys Cys His Leu *
 35 40 45

```
<210> 1943
<211> 155
<212> PRT
<213> Homo sapiens
```

<400> 1943															
Met	Phe	Thr	Leu	Leu	Val	Leu	Leu	Ser	Gln	Leu	Pro	Thr	Val	Thr	Leu
1				5					10					15	
Gly	Phe	Pro	His	Cys	Ala	Arg	Gly	Pro	Lys	Ala	Ser	Lys	His	Ala	Gly
			20					25					30		
Glu	Glu	Val	Phe	Thr	Ser	Lys	Glu	Glu	Ala	Asn	Phe	Phe	Ile	His	Arg
		35					40					45			
Arg	Leu	Leu	Tyr	Asn	Arg	Phe	Asp	Leu	Glu	Leu	Phe	Thr	Pro	Gly	Asn
	50					55					60				
Leu	Glu	Arg	Glu	Cys	Asn	Glu	Glu	Leu	Cys	Asn	Tyr	Glu	Glu	Ala	Arg
65				70						75					80
Glu	Ile	Phe	Val	Asp	Glu	Asp	Lys	Thr	Ile	Ala	Phe	Trp	Gln	Glu	Tyr
				85					90					95	
Ser	Ala	Lys	Gly	Pro	Thr	Thr	Lys	Ser	Asp	Gly	Asn	Arg	Glu	Lys	Ile
			100					105					110		
Asp	Val	Met	Gly	Leu	Leu	Thr	Gly	Leu	Ile	Ala	Ala	Gly	Val	Phe	Leu
		115					120					125			
Val	Ile	Phe	Gly	Leu	Leu	Gly	Tyr	Tyr	Leu	Cys	Ile	Thr	Lys	Cys	Asn
		130				135					140				
Arg	Leu	Gln	His	Pro	Cys	Ser	Ser	Ala	Val	Tyr					
145					150					155					

```
<210> 1944 .
<211> 61
<212> PRT
<213> Homo sapiens
```

<400> 1944																
Met	Cys	Gln	His	Val	Gln	Leu	Ile	Phe	Val	Phe	Phe	Val	Glu	Thr	Gly	
1				5					10					15		
Phe	His	His	Val	Ala	Gln	Ala	Gly	Leu	Lys	Leu	Leu	Gly	Ser	Ser	Asp	
			20					25					30			
Leu	Pro	Thr	Ser	Ala	Ser	Gln	Ser	Ala	Gly	Ile	Lys	Gly	Ile	Ser	His	
		35					40					45				
His	Val	Gln	Leu	Lys	Phe	Leu	Ile	Ile	Asn	Asn	Phe	.	*			
	50					55					60					

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<210> 1945
<211> 79
<212> PRT
<213> Homo sapiens
```

<400> 1945

```

Met Gln Leu Ile Leu Trp Leu Pro Trp Tyr Val Asp Gln Thr Phe Cys
 1              5              10              15
His Ser Val Leu Gln Cys Cys Cys Pro Gly Gln Leu Cys Gln Ser Phe
              20              25              30
His Ser Asn Arg Asn Asp Ala Arg Leu Leu Gly Ala Lys Gln Ser Ile
              35              40              45
Met Arg Arg Lys Arg Trp Leu Glu Pro Ser Val Arg Glu Cys Ala Pro
              50              55              60
Gly Met Ile Leu Tyr Lys Ile Gln Ser Tyr Leu Lys Ile Gln *
 65              70              75              78

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<210> 1946

<211> 72

<212> PRT

<213> Homo sapiens

<400> 1946

```

Met Leu Arg Trp Gly Phe Leu Glu Ile Leu Phe Leu Arg Ser Trp Phe
 1              5              10              15
His Ser Trp Ile Cys Leu Leu Pro Thr Pro Gln Leu Pro Pro Asn Gly
              20              25              30
Ala Ser Ala Gly Ser Gln Asp Glu Gly Ser Arg Arg Arg Leu Ser Leu
              35              40              45
Glu Val Arg Gly Leu Met Asn His Val Pro Asn Leu Cys Val Ala Phe
              50              55              60
Leu Ser Ile Val Ser Ile Ser *
 65              70 71

```

<210> 1947

<211> 56

<212> PRT

<213> Homo sapiens

<400> 1947

```

Met Trp Asn Val Ala Phe Leu Phe Gln Trp Phe Leu Ser Leu Lys Lys
 1              5              10              15
Glu Gly Arg Ser Ser Val Glu Thr Lys Asp Arg Arg Ser Val Arg Asp
              20              25              30
Leu Trp Gly Met Pro Lys Lys Met Val Ser Phe Gly Gly Glu Trp Leu
              35              40              45
Arg Glu Gly Leu Arg Glu Val *
 50              55

```

<210> 1948

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1948

```

Met Ser Leu Leu Leu Pro Pro Leu Ala Leu Leu Leu Leu Ala Ala
 1          5          10          15
Leu Val Ala Pro Ala Thr Ala Ala Thr Ala Tyr Arg Pro Asp Trp Asn
          20          25          30
Arg Leu Ser Gly Leu Thr Arg Ala Arg Val Glu Thr Cys Gly Gly *
          35          40          45          47

```

<210> 1949

<211> 136

<212> PRT

<213> Homo sapiens

<400> 1949

```

Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1          5          10          15
His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
          20          25          30
Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
          35          40          45
Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
          50          55          60
Lys Glu Gln Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
          65          70          75          80
Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
          85          90          95
Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
          100          105          110
Thr Ile Thr Tyr Ser Tyr Ala Gly Ala Lys Arg Pro Gln Gly His Gly
          115          120          125
Phe Phe Cys Phe Leu Lys Ala Lys
          130          135 136

```

<210> 1950

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1950

```

Met Trp Ile Tyr Phe Trp Thr Leu Asn Ser Val Pro Val Ile Tyr Met
 1          5          10          15
Ser Thr Leu Met Ser Ile Pro His Tyr Phe Asp Tyr Cys Cys Phe Ile
          20          25          30
Val Ser Asp Ile Met Leu Pro Glu Ile Thr Phe Ser Thr Phe Ile Leu
          35          40          45
Leu Leu Met Val Ala Leu Ala Ile Arg Gly Pro Leu His Phe Arg Arg
          50          55          60
His Phe Arg Ile Asn Leu Ser Ile Ala Thr Lys Asn Ala *
          65          70          75          77

```

<210> 1951

<211> 89
 <212> PRT
 <213> Homo sapiens

<400> 1951
 Met Val Cys Gly Ala Leu Met Trp Ile Met Leu Ile Leu Val Gly Leu
 1 5 10 15
 Gly Phe Pro Phe Ile Met Glu Ala Leu Ser His Phe Leu Tyr Val Pro
 20 25 30
 Phe Leu Gly Val Cys Val Cys Gly Ala Ile Tyr Thr Gly Leu Phe Leu
 35 40 45
 Pro Glu Thr Lys Gly Lys Thr Phe Gln Glu Ile Ser Lys Glu Leu His
 50 55 60
 Arg Leu Asn Phe Pro Arg Arg Ala Gln Gly Pro Thr Trp Arg Ser Leu
 65 70 75 80
 Glu Val Ile Gln Ser Thr Glu Leu *
 85 88

<210> 1952
 <211> 47
 <212> PRT
 <213> Homo sapiens

<400> 1952
 Met Thr Thr Ala Leu Ser Phe Met Val Ile Thr Val Leu Trp Val Leu
 1 5 10 15
 Leu Leu His Leu Leu Ala Asn Ile Cys Ile Pro Arg Lys Cys Ser Phe
 20 25 30
 Val Cys Phe Tyr Ile Asn Gly Ile Leu Leu His Ala Val Phe *
 35 40 45 46

<210> 1953
 <211> 56
 <212> PRT
 <213> Homo sapiens

<400> 1953
 Met Lys Asn Leu Arg Leu Gly Glu Val Val Thr Leu Ser Trp Val Leu
 1 5 10 15
 Val Val Glu Leu Glu Val Lys Ala Lys Ser Val Phe Leu Leu Ala Ile
 20 25 30
 Leu Thr Thr Glu Phe Ser Leu Asn Gln Ser Leu Lys Met Phe Leu Gly
 35 40 45
 Gln Glu Trp Trp Phe Thr Leu *
 50 55

<210> 1954
 <211> 425
 <212> PRT
 <213> Homo sapiens

<400> 1954

Met	Thr	Leu	Arg	Pro	Gly	Thr	Met	Arg	Leu	Ala	Cys	Met	Phe	Ser	Ser
1				5					10					15	
Ile	Leu	Leu	Phe	Gly	Ala	Ala	Gly	Leu	Leu	Leu	Phe	Ile	Ser	Leu	Gln
			20					25					30		
Asp	Pro	Thr	Glu	Leu	Ala	Pro	Gln	Gln	Val	Pro	Gly	Ile	Lys	Phe	Asn
		35					40					45			
Ile	Arg	Pro	Arg	Gln	Pro	His	His	Asp	Leu	Pro	Pro	Gly	Gly	Ser	Gln
	50				55					60					
Asp	Gly	Asp	Leu	Lys	Glu	Pro	Thr	Glu	Arg	Val	Thr	Arg	Asp	Leu	Ser
65					70				75					80	
Ser	Gly	Ala	Pro	Arg	Gly	Arg	Asn	Leu	Pro	Ala	Pro	Asp	Gln	Pro	Gln
			85					90					95		
Pro	Pro	Leu	Gln	Arg	Gly	Thr	Arg	Leu	Arg	Leu	Arg	Gln	Arg	Arg	Arg
		100						105				110			
Arg	Leu	Leu	Ile	Lys	Lys	Met	Pro	Ala	Ala	Ala	Thr	Ile	Pro	Ala	Asn
	115						120					125			
Ser	Ser	Asp	Ala	Pro	Phe	Ile	Arg	Pro	Gly	Pro	Gly	Thr	Leu	Asp	Gly
130					135						140				
Arg	Trp	Val	Ser	Leu	His	Arg	Ser	Gln	Gln	Glu	Arg	Lys	Arg	Val	Met
145					150					155				160	
Gln	Glu	Ala	Cys	Ala	Lys	Tyr	Arg	Ala	Ser	Ser	Ser	Arg	Arg	Ala	Val
			165					170						175	
Thr	Pro	Arg	His	Val	Ser	Arg	Ile	Phe	Val	Glu	Asp	Arg	His	Arg	Val
			180					185					190		
Leu	Tyr	Cys	Glu	Val	Pro	Lys	Ala	Gly	Cys	Ser	Asn	Trp	Lys	Arg	Val
	195						200					205			
Leu	Met	Val	Leu	Ala	Gly	Leu	Ala	Ser	Ser	Thr	Ala	Asp	Ile	Gln	His
210					215					220					
Asn	Thr	Val	His	Tyr	Gly	Ser	Ala	Leu	Lys	Arg	Leu	Asp	Thr	Phe	Asp
225				230						235				240	
Arg	Gln	Gly	Ile	Leu	His	Arg	Leu	Ser	Thr	Tyr	Thr	Lys	Met	Leu	Phe
			245					250					255		
Val	Arg	Glu	Pro	Phe	Glu	Arg	Leu	Val	Ser	Ala	Phe	Arg	Asp	Lys	Phe
		260						265					270		
Glu	His	Pro	Asn	Ser	Tyr	Tyr	His	Pro	Val	Phe	Gly	Lys	Ala	Ile	Leu
	275						280					285			
Ala	Arg	Tyr	Arg	Ala	Asn	Ala	Ser	Arg	Glu	Ala	Leu	Arg	Thr	Gly	Ser
290					295						300				
Gly	Val	Arg	Phe	Pro	Glu	Phe	Val	Gln	Tyr	Leu	Leu	Asp	Val	His	Arg
305				310						315				320	
Pro	Val	Gly	Met	Asp	Ile	His	Trp	Asp	His	Val	Ser	Arg	Leu	Cys	Ser
			325					330					335		
Pro	Cys	Leu	Ile	Asp	Tyr	Asp	Phe	Val	Gly	Lys	Phe	Glu	Ser	Met	Glu
		340						345					350		
Asp	Asp	Ala	Asn	Phe	Phe	Leu	Ser	Leu	Ile	Arg	Ala	Pro	Arg	Asn	Leu
	355						360					365			
Thr	Phe	Pro	Arg	Phe	Lys	Asp	Arg	His	Ser	Gln	Glu	Ala	Arg	Thr	Thr
370					375						380				
Ala	Arg	Ile	Ala	His	Gln	Tyr	Phe	Ala	Gln	Leu	Ser	Ala	Leu	Gln	Arg
385				390						395				400	
Gln	Arg	Thr	Tyr	Asp	Phe	Tyr	Tyr	Met	Asp	Tyr	Leu	Met	Phe	Asn	Tyr
			405					410					415		
Ser	Lys	Pro	Phe	Ala	Asp	Leu	Tyr	*							
		420				424									

<210> 1955
 <211> 106
 <212> PRT
 <213> Homo sapiens

<400> 1955
 Met Val Cys Phe Leu Phe Ile Thr Pro Leu Ala Ala Ile Ser Gly Trp
 1 5 10 15
 Leu Cys Leu Arg Gly Ala Gln Asp His Leu Arg Leu His Ser Gln Leu
 20 25 30
 Glu Ala Val Gly Leu Ile Ala Leu Thr Ile Ala Leu Phe Thr Ile Tyr
 35 40 45
 Val Leu Trp Thr Leu Val Ser Phe Arg Tyr His Cys Gln Leu Tyr Ser
 50 55 60
 Glu Trp Arg Lys Thr Asn Gln Lys Val Arg Leu Lys Ile Arg Glu Ala
 65 70 75 80
 Asp Ser Pro Glu Gly Pro Gln His Ser Pro Leu Ala Ala Gly Leu Leu
 85 90 95
 Lys Lys Val Ala Glu Glu Thr Pro Val *
 100 105

<210> 1956
 <211> 139
 <212> PRT
 <213> Homo sapiens

<400> 1956
 Met Val Leu Pro Phe Ile Cys Asn Leu Leu Arg Arg His Pro Ala Cys
 1 5 10 15
 Arg Val Leu Val His Arg Pro His Gly Pro Glu Leu Asp Ala Asp Pro
 20 25 30
 Tyr Asp Pro Gly Glu Glu Asp Pro Ala Gln Ser Arg Ala Leu Glu Ser
 35 40 45
 Ser Leu Trp Glu Leu Gln Ala Leu Gln Arg His Tyr His Pro Glu Val
 50 55 60
 Ser Lys Ala Ala Ser Val Ile Asn Gln Ala Leu Ser Met Pro Glu Val
 65 70 75 80
 Ser Ile Ala Pro Leu Leu Glu Leu Thr Ala Tyr Glu Ile Phe Glu Arg
 85 90 95
 Asp Leu Lys Lys Lys Gly Pro Glu Pro Val Pro Thr Gly Val Leu Ser
 100 105 110
 Gln Pro Arg Ala Cys Trp Asp Gly Arg Val Lys Leu Cys Ala Gln His
 115 120 125
 Phe His Ala Gln Leu Thr Leu Ala His Leu *
 130 135 138

<210> 1957
 <211> 87
 <212> PRT
 <213> Homo sapiens

<400> 1957

```

Met Ala Ala Pro Trp Arg Arg Trp Pro Thr Gly Leu Leu Ala Val Leu
 1           5           10           15
Arg Pro Leu Leu Thr Cys Arg Pro Leu Gln Gly Thr Thr Leu Gln Arg
           20           25           30
Asp Gly Leu Leu Phe Glu His Asp Arg Gly Arg Phe Phe Thr Ile Leu
           35           40           45
Gly Leu Val Cys Ala Gly Gln Gly Gly Phe Trp Ala Ser Met Ala Gly
           50           55           60
Ala Gly Ala Leu Arg Thr Pro Gly Pro Leu Gln Gly Met Asn Val Glu
 65           70           75           80
Arg His Glu Leu Leu Phe *
           85 86

```

<210> 1958

<211> 48

<212> PRT

<213> Homo sapiens

<400> 1958

```

Met Thr Tyr Phe Ser Gly Leu Leu Val Ile Leu Ala Phe Ala Ala Trp
 1           5           10           15
Val Ala Leu Ala Glu Gly Leu Gly Val Ala Glu Tyr Ala Pro Ala Ala
           20           25           30
Leu Pro Cys Ala Ala Cys Ala Thr Ile Leu Leu Ser Ser Val Ala *
           35           40           45           47

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<210> 1959

<211> 65

<212> PRT

<213> Homo sapiens

<400> 1959

```

Met Trp Ser Leu Ile Gln Thr Leu Gln Ile Leu Pro Gly Ser Leu Ser
 1           5           10           15
Ile Leu Leu Cys Ser Ser Ala Gly Trp Lys Asp Cys Gln Ser Ala Leu
           20           25           30
Trp Leu Asn His Val Phe Arg Arg Ala Trp Trp Leu Leu Pro Val Ile
           35           40           45
Leu Ala Leu Trp Glu Ala Glu Ala Gly Gly Ser Pro Glu Val Arg Ser
 50           55           60           64
*
```

<210> 1960

<211> 78

<212> PRT

<213> Homo sapiens

<400> 1960

```

Met Ser Tyr Val Arg His Val Leu Ser Cys Leu Gly Gly Gly Leu Ala
 1           5           10           15
Leu Trp Arg Ala Gly Gln Trp Leu Trp Ala Gln Arg Leu Gly His Cys
           20           25           30
His Thr Tyr Trp Ala Val Ser Glu Glu Leu Leu Pro Asn Ser Gly His
           35           40           45
Gly Pro Asp Gly Glu Val Pro Lys Asp Lys Glu Gly Gly Val Phe Asp
           50           55           60
Leu Gly Pro Phe Ile Val Gly Phe Trp Gly Pro Gln Ile *
65           70           75           77

```

```

<210> 1961
<211> 77
<212> PRT
<213> Homo sapiens

```

```

<400> 1961
Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1           5           10           15
His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
           20           25           30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
           35           40           45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
           50           55           60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
65           70           75           76

```

```

<210> 1962
<211> 65
<212> PRT
<213> Homo sapiens

```

```

<400> 1962
Met Phe Ser Ala Val Phe Pro Ala Val Ser Cys Gln Ile Ser Leu Leu
 1           5           10           15
Ser Thr Cys Asn Ser Leu Gln His Phe Pro Tyr Ala Gly Val Leu Cys
           20           25           30
Phe Arg Pro Val Leu Cys Leu Cys Pro Gly Gln Asp Phe Cys Gly Asn
           35           40           45
Val Arg Cys Gln Trp Arg Leu Leu Ala Gly Val Asp Val Ser Asp Val
           50           55           60           64
*
```

```

<210> 1963
<211> 53
<212> PRT
<213> Homo sapiens

```

```

<221> misc_feature

```

<222> (1)...(53)

<223> Xaa = any amino acid or nothing

<400> 1963

```

Met Thr Cys Pro Leu His Thr Thr Pro Phe Pro Phe Ser Leu Pro Cys
 1          5          10          15
Leu Pro Thr Phe Phe Leu Asp Phe Pro Ser Cys Ser Leu Ser Ser Cys
          20          25          30
Leu Pro Ile Cys Phe Pro Phe Leu Ser Leu Xaa Gln Ile Leu His Ile
          35          40          45
Val Ala Leu Leu Ile
          50          53

```

<210> 1964

<211> 232

<212> PRT

<213> Homo sapiens

<400> 1964

```

Met Pro Ser Val His Arg Leu Leu Gly Pro Gln Pro Val Pro Ser Arg
 1          5          10          15
Arg Leu Arg Leu Ala Leu Ala Leu Leu Ser Leu Gln Val Val Val
          20          25          30
Phe Phe Leu Val Val Leu Gly Gln Gly Arg Leu Leu Gln Pro Cys Arg
          35          40          45
Gly Cys Leu Glu Leu Pro Gly Gly Pro Gly Glu Ala Glu Asp His Gly
          50          55          60
Asp Leu Gly Gln Gly Trp Val Gly Leu Leu Gln Ala Leu Asp Pro Leu
          65          70          75          80
Ser His Arg Arg Leu Val Met Ser Thr Arg His Ala His Gly Glu Asp
          85          90          95
Arg Ala Phe Leu His Phe Ile Asp Val Lys Leu Val Val Val Pro Ala
          100          105          110
Thr Pro His Ile Leu Gln Val Gln Leu His Arg Val Val Glu Val Pro
          115          120          125
Leu Leu Arg Arg Leu Phe His Phe Pro Leu Leu Arg Gly Gln Gln Val
          130          135          140
Ser Ser Glu Asp Val Val Ile His Thr Leu Val Ala Glu Pro Gln Gly
          145          150          155          160
Glu Gly Ala Leu Asn Lys Asp Arg Pro Gly Trp Ile Val Ala Gly Gln
          165          170          175
Gly Gly Leu Leu Ile Gly Thr Leu Asp Ser Trp Cys Gly Asp Ile His
          180          185          190
Ala Leu Cys Pro Thr Met Trp Gly Trp Gly Gly Ser Ala Ala Pro Val
          195          200          205
Glu Ser Leu Gly Lys Gly Thr Ser Gly Glu Gly Asp Gly Arg Arg Gln
          210          215          220
Gly Gln Arg Thr Gly Pro Gly *
          225          230 231

```

<210> 1965

<211> 253

<212> PRT

<213> Homo sapiens

<400> 1965

```

Met Gly Cys Ala Ile Ile Ala Gly Phe Leu His Tyr Leu Phe Leu Ala
 1          5          10          15
Cys Phe Phe Trp Met Leu Val Glu Ala Val Ile Leu Phe Leu Met Val
 20          25          30
Arg Asn Leu Lys Val Val Asn Tyr Phe Ser Ser Arg Asn Ile Lys Met
 35          40          45
Leu His Ile Cys Ala Phe Gly Tyr Gly Leu Pro Met Leu Val Val Val
 50          55          60
Ile Ser Ala Ser Val Gln Pro Gln Gly Tyr Gly Met His Asn Arg Cys
 65          70          75          80
Trp Leu Asn Thr Glu Thr Gly Phe Ile Trp Ser Phe Leu Gly Pro Val
 85          90          95
Cys Thr Val Ile Val Ile Asn Ser Leu Leu Leu Thr Trp Thr Leu Trp
100          105          110
Ile Leu Arg Gln Arg Leu Ser Ser Val Asn Ala Glu Val Ser Thr Leu
115          120          125
Lys Asp Thr Arg Leu Leu Thr Phe Lys Ala Phe Ala Gln Leu Phe Ile
130          135          140
Leu Gly Cys Ser Trp Val Leu Gly Ile Phe Gln Ile Gly Pro Val Ala
145          150          155          160
Gly Val Met Ala Tyr Leu Phe His His His Gln Gln Pro Ala Gly Gly
165          170          175
Leu His Leu Pro His Pro Leu Ser Ala Gln Arg Pro Gly Thr Arg Arg
180          185          190
Ile Gln Glu Val Asp His Trp Glu Asp Glu Ala Gln Leu Pro Val Pro
195          200          205
Asp Leu Lys Asp Leu Ala Val Leu His Ala Ile Arg Phe Gln Asp Gly
210          215          220
Leu Lys Ser Phe Leu Ala Phe Lys Tyr Ala Met Glu Pro Thr Val Gly
225          230          235          240
Gly Thr Ser Ser Phe Pro Cys Arg Glu Pro Tyr Pro *
245          250          252

```

<210> 1966

<211> 649

<212> PRT

<213> Homo sapiens

<400> 1966

```

Met Val Thr Cys Phe Ile Ile Gly Leu Leu Phe Pro Val Phe Ser Val
 1          5          10          15
Cys Tyr Leu Ile Ala Pro Lys Ser Pro Leu Gly Leu Phe Ile Arg Lys
 20          25          30
Pro Phe Ile Lys Phe Ile Cys His Thr Ala Ser Tyr Leu Thr Phe Leu
 35          40          45
Phe Leu Leu Leu Leu Ala Ser Gln His Ile Asp Arg Ser Asp Leu Asn
 50          55          60
Arg Gln Gly Pro Pro Pro Thr Ile Val Glu Trp Met Ile Leu Pro Trp
 65          70          75          80
Val Leu Gly Phe Ile Trp Gly Glu Ile Lys Gln Met Trp Asp Gly Gly
 85          90          95
Leu Gln Asp Tyr Ile His Asp Trp Trp Asn Leu Met Asp Phe Val Met

```


			100					105					110				
Asn	Ser	Leu	Tyr	Leu	Ala	Thr	Ile	Ser	Leu	Lys	Ile	Val	Ala	Phe	Val		
		115					120					125					
Lys	Tyr	Ser	Ala	Leu	Asn	Pro	Arg	Glu	Ser	Trp	Asp	Met	Trp	His	Pro		
	130					135					140						
Thr	Leu	Val	Ala	Glu	Ala	Leu	Phe	Ala	Ile	Ala	Asn	Ile	Phe	Ser	Ser		
145					150					155					160		
Leu	Arg	Leu	Ile	Ser	Leu	Phe	Thr	Ala	Asn	Ser	His	Leu	Gly	Pro	Leu		
				165					170					175			
Gln	Ile	Ser	Leu	Gly	Arg	Met	Leu	Leu	Asp	Ile	Leu	Lys	Phe	Leu	Phe		
			180					185					190				
Ile	Tyr	Cys	Leu	Val	Leu	Leu	Ala	Phe	Ala	Asn	Gly	Leu	Asn	Gln	Leu		
		195					200					205					
Tyr	Phe	Tyr	Tyr	Glu	Glu	Thr	Lys	Gly	Leu	Thr	Cys	Lys	Gly	Ile	Arg		
	210					215					220						
Cys	Glu	Lys	Gln	Asn	Asn	Ala	Phe	Ser	Thr	Leu	Phe	Glu	Thr	Leu	Gln		
225				230						235					240		
Ser	Leu	Phe	Trp	Ser	Ile	Phe	Gly	Leu	Ile	Asn	Leu	Tyr	Val	Thr	Asn		
				245					250					255			
Val	Lys	Ala	Gln	His	Glu	Phe	Thr	Glu	Phe	Val	Gly	Ala	Thr	Met	Phe		
			260					265					270				
Gly	Thr	Tyr	Asn	Asp	Ile	Ser	Leu	Val	Val	Leu	Leu	Asn	Met	Leu	Ile		
		275					280					285					
Ala	Met	Met	Asn	Asn	Ser	Tyr	Gln	Leu	Ile	Ala	Asp	His	Ala	Asp	Ile		
	290					295					300						
Glu	Trp	Lys	Phe	Ala	Arg	Thr	Lys	Leu	Trp	Met	Ser	Tyr	Phe	Glu	Glu		
305				310						315					320		
Gly	Gly	Thr	Leu	Pro	Thr	Pro	Phe	Asn	Val	Ile	Pro	Ser	Pro	Lys	Ser		
				325					330					335			
Leu	Trp	Tyr	Leu	Ile	Lys	Trp	Ile	Trp	Thr	His	Leu	Cys	Lys	Lys	Lys		
			340					345					350				
Met	Arg	Arg	Lys	Pro	Glu	Ser	Phe	Gly	Thr	Ile	Gly	Arg	Arg	Ala	Ala		
		355					360					365					
Asp	Asn	Leu	Arg	Arg	His	His	Gln	Tyr	Gln	Glu	Val	Met	Arg	Asn	Leu		
						375					380						
Val	Lys	Arg	Tyr	Val	Ala	Ala	Met	Ile	Arg	Asp	Ala	Lys	Thr	Glu	Glu		
385				390						395					400		
Gly	Leu	Thr	Glu	Glu	Asn	Phe	Lys	Glu	Leu	Lys	Gln	Asp	Ile	Ser	Ser		
				405					410					415			
Phe	Arg	Phe	Glu	Val	Leu	Gly	Leu	Leu	Arg	Gly	Ser	Lys	Leu	Ser	Thr		
			420					425					430				
Ile	Gln	Ser	Ala	Asn	Ala	Ser	Lys	Glu	Ser	Ser	Asn	Ser	Ala	Asp	Ser		
		435					440					445					
Asp	Glu	Lys	Ser	Asp	Ser	Glu	Gly	Asn	Ser	Lys	Asp	Lys	Lys	Lys	Asn		
		450				455											

Cys Val Leu Val Asp His Arg Glu Arg Asn Thr Asp Thr Leu Gly Leu
 580 585 590
 Gln Val Gly Lys Arg Val Cys Pro Phe Lys Ser Glu Lys Val Val Val
 595 600 605
 Glu Asp Thr Val Pro Ile Ile Pro Lys Glu Lys His Ala Lys Glu Glu
 610 615 620
 Asp Ser Ser Ile Asp Tyr Asp Leu Asn Leu Pro Asp Thr Val Thr His
 625 630 635 640
 Glu Asp Tyr Val Thr Thr Arg Leu *
 645 648

<210> 1967
 <211> 80
 <212> PRT
 <213> Homo sapiens

 <400> 1967
 Met Thr Gly Thr His Gln Tyr Ala Trp Val Ile Phe Val Phe Leu Ser
 1 5 10 15
 Thr Tyr Arg Ile Ser Pro Cys Trp Pro Gly Trp Phe Gln Thr Pro Gly
 20 25 30
 Leu Arg Trp Ser Ala Cys Leu Gly Leu Pro Gly Cys Trp Asp Cys Arg
 35 40 45
 Arg Glu Pro Leu Gly Pro Ala Cys Ile Phe Tyr Gln Pro Gln Ile Gln
 50 55 60
 Gln Gln Ala Glu Asp Ser Ala His Lys Thr Gly Leu Val Ser Trp *
 65 70 75 79

<210> 1968
 <211> 49
 <212> PRT
 <213> Homo sapiens

 <400> 1968
 Met Thr Tyr Ile Leu Val Tyr Lys Leu Gly Ser Ile Leu Leu Ser Phe
 1 5 10 15
 Phe Leu Ile Cys Phe Glu Glu Phe Ser Ser Glu Asn Ser Gly Pro Gly
 20 25 30
 Ile Phe Phe Val Glu Arg Val Leu Ile Leu Asn Leu Ile Ser Leu Ile
 35 40 45 48
 *

<210> 1969
 <211> 150
 <212> PRT
 <213> Homo sapiens

 <400> 1969
 Met His Val His Phe Trp Leu Val Thr Ala Ser Phe Ser Ser Ser Val

```

      1           5           10           15
Ala Trp Thr Thr Ala Glu Ile Thr Gly Gly Val Ser Gly Val Ala Ala
      20           25           30
Gly Val Gly Ser Trp Glu Gly Gly Ser Glu Arg Gly Asp Arg Phe Gly
      35           40           45
Asp Phe Thr Thr Leu Asn Val Ser Val Phe Arg Gly Val Phe Phe Phe
      50           55           60
Leu Ala Gly Leu Phe Ser Pro Ser Pro Ser Thr Pro Leu Ala Ser Ile
      65           70           75           80
Ala Leu Ala Gly Ile Ser Lys Glu Ala Gly Asp Leu Glu Gly Glu Leu
      85           90           95
Gly Val Leu Glu Asp Val Leu Lys Gly Ser Thr Asp Ser Ser Gln Val
      100          105          110
Ser Gly Ser Lys Leu Tyr Asp Cys Trp Gly Ser Leu Gly Asp Ser Cys
      115          120          125
Ile Phe Glu Val Glu Glu Lys Gly Leu Lys Leu Gly Ser Ser His Leu
      130          135          140
Ser Ile Ser Lys Val *
145          149

```

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<210> 1970
<211> 48
<212> PRT
<213> Homo sapiens

```

```

      <400> 1970
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
      1           5           10           15
Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
      20           25           30
Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu *
      35           40           45           47

```

```

<210> 1971
<211> 64
<212> PRT
<213> Homo sapiens

```

```

      <400> 1971
Met Leu Ile Phe Thr Val Leu Glu Leu Leu Leu Ala Ala Tyr Ser Ser
      1           5           10           15
Val Phe Trp Trp Lys Gln Leu Tyr Ser Asn Asn Pro Gly Val Ser Met
      20           25           30
Leu Thr Cys Arg Leu Ile Pro Ala Val Ser Gln Val Gln Ala Thr Ile
      35           40           45
Ile Gln Pro Gln Lys Val Ala Lys Arg Arg Ile Asn Tyr Cys Ser *
      50           55           60           63

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```

<210> 1972
<211> 211
<212> PRT

```

<213> Homo sapiens

<221> misc_feature

<222> (1)...(211)

<223> Xaa = any amino acid or nothing

<400> 1972

```

Met Thr Arg Met Leu Asn Met Leu Ile Val Phe Arg Phe Leu Arg Ile
 1           5           10           15
Ile Pro Ser Met Lys Pro Met Ala Val Val Ala Ser Thr Val Leu Gly
           20           25           30
Leu Val Gln Asn Met Arg Ala Phe Gly Gly Ile Leu Val Val Val Tyr
           35           40           45
Tyr Val Phe Ala Ile Ile Gly Ile Asn Leu Phe Arg Gly Val Ile Val
           50           55           60
Ala Leu Pro Gly Asn Ser Ser Leu Ala Pro Ala Asn Gly Ser Ala Pro
           65           70           75           80
Cys Gly Ser Phe Glu Gln Leu Glu Tyr Trp Ala Asn Asn Phe Asp Asp
           85           90           95
Phe Xaa Ala Ala Leu Val Thr Leu Trp Asn Leu Met Val Val Asn Asn
           100          105          110
Trp Gln Val Phe Leu Asp Ala Tyr Arg Arg Tyr Ser Gly Pro Trp Ser
           115          120          125
Lys Ile Tyr Phe Val Leu Trp Trp Leu Val Ser Ser Val Ile Trp Val
           130          135          140
Asn Leu Phe Leu Ala Leu Ile Leu Glu Asn Phe Leu His Lys Trp Asp
           145          150          155          160
Pro Arg Ser His Leu Gln Pro Leu Ala Gly Thr Pro Glu Ala Thr Tyr
           165          170          175
Gln Met Thr Val Glu Leu Leu Phe Arg Asp Ile Leu Glu Glu Pro Gly
           180          185          190
Glu Asp Glu Leu Thr Glu Arg Leu Ser Gln His Pro His Leu Trp Leu
           195          200          205
Cys Arg *
           210

```

<210> 1973

<211> 53

<212> PRT

<213> Homo sapiens

<400> 1973

```

Met Ile Gln Tyr Ala Val Phe Val Leu Cys Gly Phe Leu Tyr Leu Cys
 1           5           10           15
Phe Met Leu Phe Phe Phe Ser Ser Val Thr Gln Ala Gly Val Ser Glu
           20           25           30
Pro Arg Ser Ser His Cys Thr Pro Ala Trp Ala Thr Glu Arg Asp Cys
           35           40           45
Val Ser Asn Lys *
           50           52

```

<210> 1974

<211> 50

<212> PRT

<213> Homo sapiens

<400> 1974

```

Met Gly Val Thr Thr Ala Thr Leu Ile Ala Pro Ala Leu Arg Thr Leu
 1           5           10           15
Arg Thr Ser Ala Val Cys Ser Thr Thr Ala Glu Thr Ser Phe Ser Ala
           20           25           30
Cys Thr Phe Val Ser Thr Ser Cys Ser Lys Lys Gly Thr Pro Arg Phe
      35           40           45
Ser *
49

```

<210> 1975

<211> 87

<212> PRT

<213> Homo sapiens

<400> 1975

```

Met Cys Ser Ser Pro Ala Val Leu Leu Cys Ala Leu Val Val Gly Cys
 1           5           10           15
Pro Val Gly Phe Pro His Glu Ala Asp Pro Gly Ser Met Gln Arg Ala
           20           25           30
Ser Ser Leu Gly Leu His Gln Ala Ser Val Val Ser Ala Gly Trp Leu
      35           40           45
Gly Gln Ala Arg His Gly Ala His Leu Gly Cys Ser Leu Leu Pro Ser
      50           55           60
Gly Val His Gly Leu Trp Arg Pro Ser Val Gln Pro Arg Arg Asp Pro
      65           70           75           80
Val Thr Glu Leu Gln Cys *
           85 86

```

<210> 1976

<211> 107

<212> PRT

<213> Homo sapiens

<400> 1976

```

Met Ala Leu Tyr Glu Leu Phe Ser His Pro Val Glu Arg Ser Tyr Arg
 1           5           10           15
Ala Gly Leu Cys Ser Lys Ala Ala Leu Phe Leu Leu Leu Ala Ala Ala
           20           25           30
Leu Thr Tyr Ile Pro Pro Leu Leu Val Ala Phe Arg Ser His Gly Phe
      35           40           45
Trp Leu Lys Arg Ser Ser Tyr Glu Glu Gln Pro Thr Val Arg Phe Gln
      50           55           60
His Gln Val Leu Leu Val Ala Leu Leu Gly Pro Glu Ser Asp Gly Phe
      65           70           75           80
Leu Ala Trp Ser Thr Phe Pro Ala Phe Asn Arg Gln Gln Gly Asp Arg
           85           90           95
Leu Arg Val Pro Leu Val Ser Trp Arg Arg *
           100           105 106

```

<210> 1977
 <211> 134
 <212> PRT
 <213> Homo sapiens

<400> 1977
 Met Val Thr Val Ala Met Ala Cys Ser Gly Ala Leu Thr Ala Leu Cys
 1 .5 10 15
 Cys Leu Phe Val Ala Met Gly Val Leu Arg Val Pro Trp His Cys Pro
 20 25 30
 Leu Leu Leu Val Thr Glu Gly Leu Leu Asp Met Leu Ile Ala Gly Gly
 35 40 45
 Tyr Ile Pro Ala Leu Tyr Phe Tyr Phe His Tyr Leu Ser Ala Ala Tyr
 50 55 60
 Gly Ser Pro Val Cys Lys Glu Arg Gln Ala Leu Tyr Gln Ser Lys Gly
 65 70 75 80
 Tyr Ser Gly Phe Gly Cys Ser Phe His Gly Ala Asp Ile Gly Ala Gly
 85 90 95
 Ile Phe Ala Ala Leu Gly Ile Val Val Phe Ala Leu Gly Ala Val Leu
 100 105 110
 Ala Ile Lys Gly Tyr Arg Lys Val Arg Lys Leu Lys Glu Lys Pro Ala
 115 120 125
 Glu Met Phe Glu Phe *
 130 133

<210> 1978
 <211> 61
 <212> PRT
 <213> Homo sapiens

<400> 1978
 Met Thr Leu Arg Met Leu Val Pro Arg Leu Leu Leu Thr Arg Gln Leu
 1 5 10 15
 Val Trp Phe Phe Ser Ala Ala Thr Glu Arg Asp Pro Glu Met Met Asn
 20 25 30
 Gly Ile Pro Arg Lys Leu Met Ser Phe Pro Pro Ser Ser Val Thr Ser
 35 40 45
 Arg Arg Ser Arg Arg Gly His His Leu Gln Ser Leu *
 50 55 60

<210> 1979
 <211> 66
 <212> PRT
 <213> Homo sapiens

<400> 1979
 Met Leu Thr Ala Leu Pro Lys Ser Phe Val Phe Lys Val Val Gly Glu
 1 5 10 15
 Trp Trp Trp Leu Phe Ile Cys Leu Val Leu Ala Phe Ala Asp Gly Lys

```

          20          25          30
Arg His Lys Tyr Ser Tyr Asp Ala Asn Val Phe Leu Gln Val Asn Tyr
      35          40          45
Ile Thr Trp Pro Asp Ser Phe Ser Pro Val Pro Ser Leu Pro Pro Ile
      50          55          60
Leu *
      65

```

<210> 1980
 <211> 51
 <212> PRT
 <213> Homo sapiens

```

    <400> 1980
Met Asp Thr Pro Arg Ser Thr Val Phe Ser Leu Trp Phe Gly Ile His
  1          5          10          15
Lys Ala Ala Gly Ile Phe Gln Val Leu Val Gln Leu Leu Leu Leu
      20          25          30
Thr Pro Tyr Pro Arg Tyr Pro Ser Pro Ser Pro Leu Pro Pro Tyr Ser
      35          40          45
Tyr Pro *
      50

```

<210> 1981
 <211> 79
 <212> PRT
 <213> Homo sapiens

```

    <400> 1981
Met Met Trp Ala Ala Gly Ala Val Ala Ala Met Ser Ser Ile Thr Phe
  1          5          10          15
Pro Ala Val Ser Ala Leu Val Ser Arg Thr Ala Asp Ala Asp Gln Gln
      20          25          30
Gly Glu Leu Ile Gly Thr Ser Asp Asn Tyr Leu Lys Val Gln Asn Val
      35          40          45
Leu Ile Leu Cys Ser Val Ser Tyr Val Leu Lys His Lys Tyr Ile Phe
      50          55          60
Arg Gly Glu Thr Phe Lys Ile Ala Phe Asp Ile Asn Arg Lys Ser
      65          70          75          79

```

<210> 1982
 <211> 156
 <212> PRT
 <213> Homo sapiens

```

    <400> 1982
Met His Asn Asn Tyr Thr Ala Leu Leu Gly Val Trp Ile Tyr Gly Phe
  1          5          10          15
Phe Val Leu Met Leu Leu Val Leu Asp Leu Leu Tyr Tyr Ser Ala Met
      20          25          30

```

```

Asn Tyr Asp Ile Cys Lys Val Tyr Leu Ala Arg Trp Gly Ile Gln Gly
   35           40           45
Arg Trp Met Lys Gln Asp Pro Arg Arg Trp Gly Asn Pro Ala Arg Ala
   50           55           60
Pro Arg Pro Gly Gln Arg Ala Pro Gln Pro Gln Pro Pro Gly Pro
   65           70           75           80
Leu Pro Gln Ala Pro Gln Ala Val His Thr Leu Arg Gly Asp Ala His
           85           90           95
Ser Pro Pro Leu Met Thr Phe Gln Ser Ser Ser Ala Trp Glu Gly Ala
           100          105          110
Ser Gln Gln Gln Glu Ile Pro Glu Asn Glu Glu Thr Glu Lys Gly Asp
           115          120          125
Asp Gln Ile Ser Ser Phe Leu Gly Val Thr Ser Asn Thr Lys Glu Ala
           130          135          140
Ser Val Ile Gly Ile Gln Lys Thr Val Asp Val Leu
145           150           155 156

```

<210> 1983
 <211> 63
 <212> PRT
 <213> Homo sapiens

```

<400> 1983
Met Arg Leu Ile Arg Ile Trp Phe Ser Gly Lys Phe Phe Pro Ala Gly
  1           5           10           15
Leu His Ser Gln Ser Leu Pro Ser Ile Ser Ala Ala Ile Gly Leu Leu
           20           25           30
Met Leu Phe Thr Asn Leu Phe Thr Cys Ser Lys Cys Phe Val Ile Ser
           35           40           45
Val Ala Lys Thr Met Ser Ile Ala Trp Arg Ser Val Arg *
           50           55           60           62

```

<210> 1984
 <211> 232
 <212> PRT
 <213> Homo sapiens

```

<400> 1984
Met Phe His Arg Cys Gly Ile Met Ala Leu Val Ala Ala Tyr Leu Asn
  1           5           10           15
Phe Val Ser Gln Met Ile Ala Val Pro Ala Phe Cys Gln His Val Ser
           20           25           30
Lys Val Ile Glu Ile Arg Thr Met Glu Ala Pro Tyr Phe Leu Pro Glu
           35           40           45
His Ile Phe Arg Asp Lys Cys Met Leu Pro Lys Ser Leu Glu Lys His
           50           55           60
Glu Lys Asp Leu Tyr Phe Leu Thr Asn Lys Ile Ala Glu Ser Leu Gly
           65           70           75           80
Gly Lys Trp Asp Ile Val Leu Arg Asp Cys Gln Phe Arg Met Leu Pro
           85           90           95
Gln Val Thr Asp Glu Asp Arg Leu Ser Arg Arg Lys Ser Ile Val Asp
           100          105          110
Thr Val Ser Ile Gln Val Asp Ile Leu Ser Asn Asn Val Pro Ser Asp

```



```

      115      120      125
Asp Val Val Ser Asn Thr Glu Glu Ile Thr Phe Glu Ala Leu Lys Lys
      130      135      140
Ala Ile Asp Thr Ser Gly Met Glu Glu Gln Glu Lys Glu Lys Arg Arg
145      150      155      160
Leu Val Ile Glu Lys Phe Gln Lys Ala Pro Phe Glu Glu Ile Ala Ala
      165      170      175
Gln Cys Glu Ser Lys Ala Asn Leu Leu His Asp Arg Leu Ala Gln Ile
      180      185      190
Leu Glu Leu Thr Ile Arg Pro Pro Pro Ser Pro Ser Gly Thr Leu Thr
      195      200      205
Ile Thr Ser Gly His Ala Gln Tyr Gln Ser Val Pro Val Tyr Glu Met
      210      215      220
Lys Phe Pro Asp Leu Cys Val Tyr
225      230      232

```

<210> 1985
 <211> 141
 <212> PRT
 <213> Homo sapiens

```

      <400> 1985
Met Asn Leu Ser Leu Pro Phe Leu Cys Leu Phe Leu Leu Ser Phe Ser
  1      5      10      15
Phe Lys Leu Ala Leu Gln Leu Arg Lys Val Ser Leu Leu Ser Leu Arg
      20      25      30
Leu Trp Gly Gln Ser Ile Cys Cys Leu Glu Lys Glu Gly Asn Gln Asp
      35      40      45
Ser Ser Gly Thr Gln Met Ser Ser Ser Leu Ala Leu Leu Asn Pro Leu
      50      55      60
Leu His Asn Trp Ser Phe Ile Leu Ala Leu Asn Asp Pro Ala Gly His
      65      70      75      80
His Gly Phe Leu Phe Leu Leu Val Phe Phe Phe Ser Glu Thr Glu Ser
      85      90      95
His Ser Val Thr Gln Ala Gly Val Gln Trp Arg Asp Leu Ser Ser Leu
      100      105      110
Gln Pro Leu Pro Pro Gly Phe Lys Arg Phe Phe Cys Leu Ser Leu Pro
      115      120      125
Ser Ser Trp Asp Tyr Arg Cys Ala Thr Thr Pro Gly *
      130      135      140

```

<210> 1986
 <211> 292
 <212> PRT
 <213> Homo sapiens

```

      <400> 1986
Met Ile Ser Val Ser Ala Met Ala Ile Ala Phe Leu Thr Leu Gly Tyr
  1      5      10      15
Phe Phe Lys Ile Lys Glu Ile Lys Ser Pro Glu Met Ala Glu Asp Trp
      20      25      30
Asn Thr Phe Leu Leu Arg Phe Asn Asp Leu Asp Leu Cys Val Ser Glu
      35      40      45

```

```

Asn Glu Thr Leu Lys His Leu Thr Asn Asp Thr Thr Thr Pro Glu Ser
  50          55          60
Thr Met Thr Ser Gly Gln Ala Arg Ala Ser Thr Gln Ser Pro Gln Ala
  65          70          75          80
Leu Glu Asp Ser Gly Pro Val Asn Ile Ser Val Ser Ile Thr Leu Thr
          85          90          95
Leu Asp Pro Leu Lys Pro Phe Gly Gly Tyr Ser Arg Asn Val Thr His
          100          105          110
Leu Tyr Ser Thr Ile Leu Gly His Gln Ile Gly Leu Ser Gly Arg Glu
          115          120          125
Ala His Glu Glu Ile Asn Ile Thr Phe Thr Leu Pro Thr Ala Trp Ser
          130          135          140
Ser Asp Asp Cys Ala Leu His Gly His Cys Glu Gln Val Val Phe Thr
  145          150          155          160
Ala Cys Met Thr Leu Thr Ala Ser Pro Gly Val Phe Pro Val Thr Val
          165          170          175
Gln Pro Pro His Cys Val Pro Asp Thr Tyr Ser Asn Ala Thr Leu Trp
          180          185          190
Tyr Lys Ile Phe Thr Thr Ala Arg Asp Ala Asn Thr Lys Tyr Ala Gln
          195          200          205
Asp Tyr Asn Pro Phe Trp Cys Tyr Lys Gly Ala Ile Gly Lys Val Tyr
  210          215          220
His Ala Leu Asn Pro Lys Leu Thr Val Ile Val Pro Asp Asp Asp Arg
  225          230          235          240
Ser Leu Ile Asn Leu His Leu Met His Thr Ser Tyr Phe Leu Phe Val
          245          250          255
Met Val Ile Thr Met Phe Cys Tyr Ala Val Ile Lys Gly Arg Pro Ser
          260          265          270
Lys Leu Arg Gln Ser Asn Pro Glu Phe Cys Pro Glu Lys Val Ala Leu
          275          280          285
Ala Glu Ala *
          290 291

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<210> 1987

<211> 186

<212> PRT

<213> Homo sapiens

<400> 1987

```

Met Ala Gly Pro Arg Pro Arg Trp Arg Asp Gln Leu Leu Phe Met Ser
  1          5          10          15
Ile Ile Val Leu Val Ile Val Val Ile Cys Leu Met Leu Tyr Ala Leu
          20          25          30
Leu Trp Glu Ala Gly Asn Leu Thr Asp Leu Pro Asn Leu Arg Ile Gly
          35          40          45
Phe Tyr Asn Phe Cys Leu Trp Asn Glu Asp Thr Ser Thr Leu Gln Cys
          50          55          60
His Gln Phe Pro Glu Leu Glu Ala Leu Gly Val Pro Arg Val Gly Leu
          65          70          75          80
Gly Leu Ala Arg Leu Gly Val Tyr Gly Ser Leu Val Leu Thr Leu Phe
          85          90          95
Ala Pro Gln Pro Leu Leu Leu Ala Gln Cys Asn Ser Asp Glu Arg Ala
          100          105          110
Trp Arg Leu Ala Val Gly Phe Leu Ala Val Ser Ser Val Leu Leu Ala
          115          120          125
Gly Gly Leu Gly Leu Phe Leu Ser Tyr Val Trp Lys Trp Val Arg Leu

```

```

      130              135              140
Ser Leu Pro Gly Pro Gly Phe Leu Ala Leu Gly Ser Ala Gln Ala Leu
145              150              155              160
Leu Ile Leu Leu Leu Ile Ala Met Ala Val Phe Pro Leu Arg Ala Glu
      165              170              175
Arg Ala Glu Ser Lys Leu Glu Ser Cys *
      180              185

```

<210> 1988
 <211> 47
 <212> PRT
 <213> Homo sapiens

```

      <400> 1988
Met Phe Asn Leu Lys Glu Ile Pro Leu Ile Leu Tyr Val Leu Leu Ser
  1              5              10              15
Val Val Cys Phe Ser Phe Ser Tyr Gly Val Glu Pro Pro Lys Ser Trp
      20              25              30
Ser Gln Gly Lys Lys Gly Val Val Thr Gly Asp Ser Leu Leu *
      35              40              45 46

```

<210> 1989
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1989
Met Thr Leu Pro Cys Ala Ile Gln Met Phe Ile Ala Ala Val Gln Val
  1              5              10              15
Leu Ser Val Thr Tyr Leu Asp Leu Gln Pro His Leu Asn Glu Ser Leu
      20              25              30
Leu Thr Val Ser Leu Ile Phe Arg Phe Ile Phe Asn Leu Leu Phe Tyr
      35              40              45
Leu Gly Leu Thr Phe Ser Val Thr Lys *
      50              55 57

```

<210> 1990
 <211> 80
 <212> PRT
 <213> Homo sapiens

```

      <400> 1990
Met Ile Ser Phe Val Leu Val Lys Gly Leu Phe Leu Lys Cys Thr Phe
  1              5              10              15
His Phe Pro Leu Phe Asn Arg His Ile Met Ser Cys Ser Phe Leu Arg
      20              25              30
Ser Asp Phe Met His Gly Asp Ser Met Cys Phe Ser Ser Ser Tyr Met
      35              40              45
Leu Leu Asn Glu Ser Leu Tyr Ile Ser Phe His Thr Met Val Ile Lys
      50              55              60

```

Thr His Trp Ala Val Cys Gly Cys Gly Phe Ile Ser Glu Lys Leu *
 65 70 75 79

<210> 1991
 <211> 48
 <212> PRT
 <213> Homo sapiens

<400> 1991
 Met Val Arg Trp Lys Arg Glu Ile His Glu Leu Leu Trp Pro Leu Trp
 1 5 10 15
 Phe Cys Ser Trp Pro Arg Val Phe Glu Lys Gln Arg Ser Met Thr Asp
 20 25 30
 Phe Thr Cys Ser Ala Phe Ser Ala Phe Cys Leu Phe Cys Cys Pro *
 35 40 45 47

<210> 1992
 <211> 51
 <212> PRT
 <213> Homo sapiens

<400> 1992
 Met Leu Phe Ser Leu Gln Thr Ala Ile Val Tyr Cys Thr Ile Thr Val
 1 5 10 15
 Leu Cys His Arg Thr Leu Ile Phe Ser Ser Met His Lys Cys Ile Met
 20 25 30
 Leu Phe Pro Ile Ile His Ile Cys Ser Tyr Val Phe Phe Val Ile Tyr
 35 40 45
 Ser Phe *
 50

<210> 1993
 <211> 79
 <212> PRT
 <213> Homo sapiens

<400> 1993
 Met Trp Cys Ala Glu Met Leu His Ile Leu Phe Met Gly Leu Arg Val
 1 5 10 15
 Asn Leu Asn His Glu Thr Phe Leu Ile Ile Cys Cys Glu Ile Tyr Gln
 20 25 30
 Ala Trp Met Ile Ser Val Phe Leu Val Val Cys Cys Phe Phe Lys Glu
 35 40 45
 Val Ile Gln Val Pro Leu Leu Ser Cys Gln His Thr Lys Leu Leu Lys
 50 55 60
 Lys Leu Thr Ile Ser Phe Arg Ser Asn Ser Gln Pro Val Glu *
 65 70 75 78

<210> 1994
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1994
 Met Thr Ser Leu Gln Lys Arg Leu Leu Ser His Cys Met Gln Cys Thr
 1 5 10 15
 Met Leu Leu Gly Ile Cys Gly Gln Cys Lys Asp Asp Asp Ile Leu Ala
 20 25 30
 Ser Trp Val Ile Gln Glu Phe Thr Ala Met Gln Ser Arg Ser Arg Asn
 35 40 45
 Leu Gln Ser Arg
 50 52

<210> 1995
 <211> 164
 <212> PRT
 <213> Homo sapiens

<400> 1995
 Met Leu Leu Ala Thr Leu Leu Leu Leu Leu Leu Gly Gly Ala Leu Ala
 1 5 10 15
 His Pro Asp Arg Ile Ile Phe Pro Asn His Ala Cys Glu Asp Pro Pro
 20 25 30
 Ala Val Leu Leu Glu Val Gln Gly Thr Leu Gln Arg Pro Leu Val Arg
 35 40 45
 Asp Ser Arg Thr Ser Pro Ala Asn Cys Thr Trp Leu Ile Leu Gly Ser
 50 55 60
 Lys Glu Arg Thr Val Thr Ile Arg Phe Gln Lys Leu His Leu Ala Cys
 65 70 75 80
 Gly Ser Glu Arg Leu Thr Leu Arg Ser Pro Leu Gln Pro Leu Ile Ser
 85 90 95
 Leu Cys Glu Ala Pro Pro Ser Pro Leu Gln Leu Pro Gly Gly Asn Val
 100 105 110
 Thr Ile Thr Tyr Ser Tyr Ala Gly Gln Ser Thr His Gly Pro Gly
 115 120 125
 Leu Pro Ala Leu Leu Gln Ala Ser Pro Ser Pro Trp Cys Leu Cys Arg
 130 135 140
 Leu Ala Asp Val Leu Ala Arg Arg Gly Ser Met Pro Glu Pro Pro Leu
 145 150 155 160
 Cys Ile Cys *
 163

<210> 1996
 <211> 77
 <212> PRT
 <213> Homo sapiens

<400> 1996
 Met Trp Tyr Gly Val Phe Leu Trp Ala Leu Val Ser Ser Leu Phe Phe
 1 5 10 15

```

His Val Pro Ala Gly Leu Leu Ala Leu Phe Thr Leu Arg His His Lys
      20      25      30
Tyr Gly Ala Ala Ile Ala Gly Val Tyr Arg Ala Ala Gly Lys Glu Met
      35      40      45
Ile Pro Phe Glu Ala Leu Thr Leu Gly Thr Gly Gln Thr Phe Cys Val
      50      55      60
Leu Val Val Ser Phe Leu Arg Ile Leu Ala Thr Leu *
      65      70      75 76

```

<210> 1997
 <211> 233
 <212> PRT
 <213> Homo sapiens

```

      <400> 1997
Met Gly Leu Pro Gly Leu Phe Cys Leu Ala Val Leu Ala Ala Ser Ser
  1      5      10      15
Phe Ser Lys Ala Arg Glu Glu Ile Thr Pro Val Val Ser Ile Ala
      20      25      30
Tyr Lys Val Leu Glu Val Phe Pro Lys Gly Arg Trp Val Leu Ile Thr
      35      40      45
Cys Cys Ala Pro Gln Pro Pro Pro Ile Thr Tyr Ser Leu Cys Gly
      50      55      60
Thr Lys Asn Ile Lys Val Ala Lys Lys Val Val Lys Thr His Glu Pro
      65      70      75      80
Ala Ser Phe Asn Leu Asn Val Thr Leu Lys Ser Ser Pro Asp Leu Leu
      85      90      95
Thr Tyr Phe Cys Arg Ala Ser Ser Thr Ser Gly Ala His Val Asp Ser
      100      105      110
Ala Arg Leu Gln Met His Trp Glu Leu Trp Ser Arg Gln Arg Gly Arg
      115      120      125
Pro Gln Gly Gly Asp Asp Leu Pro Gly Val Leu Gly Gln Pro Thr Tyr
      130      135      140
His Gln Gln Pro Asp Arg Glu Gly Trp Ala Gly Pro Pro Ala Ala Glu
      145      150      155      160
Thr Met Pro Gln Glu Ala Cys Gln Leu Ser Pro Ser Cys Arg Ala Arg
      165      170      175
His Arg Thr Trp Phe Trp Cys Gln Ala Cys Lys Gln Arg Gln Cys Ser
      180      185      190
Ser Thr Ala Pro Ser Gln Trp Leu Pro Gln Val Val Thr Gln Lys Met
      195      200      205
Glu Asp Trp Gln Gly Pro Pro Gly Glu Pro His Pro Cys Leu Ala Ala
      210      215      220
Leu Gln Glu His Pro Pro Ser Glu *
      225      230      232

```

<210> 1998
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

      <400> 1998
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly

```

```

      1           5           10           15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35           40           45
Val Gln His His Ala Trp Leu Ile Phe *
      50           55           57

```

<210> 1999
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

      <400> 1999
Met Trp Leu Leu Val Thr Leu Ser Pro Arg Leu Leu Leu Ser Pro Ser
      1           5           10           15
His Phe Thr Leu Glu Gly Pro Gln Ile Asp Gln Ala His Ser Glu Leu
      20           25           30
Gln Val Leu Pro Leu Val Arg Pro Ser Ala Val Pro Leu Leu Gln Arg
      35           40           45
Ala Ser Trp Leu Arg Ser Arg Cys Leu His Leu Pro Lys Thr Val Leu
      50           55           60
Val *
      65

```

<210> 2000
 <211> 106
 <212> PRT
 <213> Homo sapiens

```

      <400> 2000
Met Gly Arg Cys Leu Ser Leu Gly Ile Leu Arg Gln Gly Leu Cys Cys
      1           5           10           15
Pro Cys Trp Ser Val Val Ala Glu Ser Gly Leu Thr Ala Ser Leu Gly
      20           25           30
Gly Ser Gly His Pro Ala Thr Ser Cys Ser Lys Glu Ala Gly Thr Thr
      35           40           45
Gly Glu Cys Met His His Thr Gln Leu Gly Ile Gln Thr Leu Arg Thr
      50           55           60
Tyr Tyr Met Pro Asp Ser Val Glu Leu Ser Glu Thr Met Ser Gly Cys
      65           70           75           80
Asn Trp Leu Pro Thr Gln Gln Thr Gln Ser Trp Ala Asn Ile Leu Arg
      85           90           95
Val Tyr Leu Thr Leu Lys Tyr Arg Phe Ser
      100           105 106

```

<210> 2001
 <211> 88
 <212> PRT
 <213> Homo sapiens

<400> 2001

```

Met Glu Arg Arg Arg Leu Leu Gly Gly Met Ala Leu Leu Leu Leu Gln
 1           5           10           15
Ala Leu Pro Asn Pro Leu Ser Ala Arg Ala Glu Pro Pro Gln Val Arg
           20           25           30
Gly Arg Gly Arg Leu Gly His Val Gly Ser Trp Gly Ser Ser Arg Pro
           35           40           45
Gly Trp Arg Gly Leu Lys Glu Cys Cys Cys Gln Glu Leu Arg Gly Pro
           50           55           60
Glu Arg Gly Val Tyr Ala Trp Arg Gly Gln Asp Leu Lys Gly Arg Arg
           65           70           75           80
Tyr Leu Ala Glu Gly His Leu *
           85           87

```

<210> 2002

<211> 85

<212> PRT

<213> Homo sapiens

<400> 2002

```

Met Arg Lys Leu Ile Ala Gly Leu Ile Phe Leu Lys Ile Trp Thr Cys
 1           5           10           15
Thr Val Arg Thr Ser Thr Asp Leu Pro Gln Thr Glu Asp Cys Ser Gln
           20           25           30
Cys Ile His Gln Val Thr Glu Ile Gly Gln Lys Val Ala Thr Val Leu
           35           40           45
Leu Phe Tyr Gly Tyr Tyr Lys Tyr Thr Gly Thr Leu Lys Arg Thr Cys
           50           55           60
Leu Tyr Asn Val Ile Leu Tyr Lys Val Tyr Ser Pro Gly Asn Asp Gln
           65           70           75           80
Pro Asp Val Leu *
           84

```

<210> 2003

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2003

```

Met Ala Phe Ala Ser Val Leu Leu Ala Arg Ala Ser Pro Ala Val Val
 1           5           10           15
Arg Ala Cys Leu Ser Arg Cys Ala Tyr Gly Val Gly Ser Asp Cys Pro
           20           25           30
His Leu Val Thr Leu Ala Ala Leu Ile Leu Phe Trp Val *
           35           40           45

```

<210> 2004

<211> 51

<212> PRT

<213> Homo sapiens

<400> 2004

```

Met Trp Leu Phe Ile Ala Ser Lys Cys Ile Phe Leu Leu Ile Val Pro
 1           5           10           15
Asn Phe Ile Phe Val Phe Trp Arg Lys Val Phe Ser His Asp Arg Leu
           20           25           30
Asn Ile Ala Tyr Ser Phe Glu Leu Ser Ser Lys Tyr Ile Phe Ile Leu
      35           40           45
Phe Ile *
      50

```

<210> 2005

<211> 66

<212> PRT

<213> Homo sapiens

<400> 2005

```

Met Val Glu Val Val Ser Leu Leu His Leu Tyr Ala Val Ala Cys Ala
 1           5           10           15
Arg Lys Gly Pro Phe Pro Asn Thr Lys Asp Leu Ser Gly Trp Thr Pro
           20           25           30
Ser Ser Gly Arg Glu Glu Leu Trp Lys Gly Lys Arg Ala Ala Ala Ala
      35           40           45
Thr Arg Asn Pro Leu Val Leu Thr Gly Leu Gly Ser Pro Ser Ala Arg
      50           55           60
Leu *
      65

```

<210> 2006

<211> 46

<212> PRT

<213> Homo sapiens

<400> 2006

```

Met Leu Val Pro Thr Phe Phe Leu Leu Ser Leu Leu Asp Gln Ser Cys
 1           5           10           15
Leu Ser Ile Cys Val Ser Gln Asp Tyr Phe Ser Ser Ile Val Val Gln
           20           25           30
Ile Arg Gln Ile Gly Ser Leu Cys Leu Asn Lys Ser Leu *
      35           40           45

```

<210> 2007

<211> 87

<212> PRT

<213> Homo sapiens

<400> 2007

```

Met Pro Thr Leu Ala Lys Trp Ile Leu Ser Leu Ser Met Thr Ser Thr
 1           5           10           15

```

```

Thr Trp Ser Pro Cys Ser Ser Met Ile Pro Leu Met Ala Ser Ser Thr
      20      25      30
Ala Pro Ser Arg Leu Arg Thr Gly Ser Leu Pro Ser Met Thr Ile Pro
      35      40      45
Ser Pro Ser Arg Arg Ser Glu Ile Pro Pro Lys Ser Ser Gly Val Met
      50      55      60
Pro Ala Leu Ile Ile Leu Trp Arg Pro Pro Ala Ser Leu Pro Ala Trp
      65      70      75      80
Arg Arg Leu Gly Ile Thr *
      85 86

```

<210> 2008
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

<400> 2008
Met Pro Ala Ile Val Val Phe Leu Phe Cys Phe Val Ile Ser Asp Gly
 1      5      10      15
Leu Thr Leu Ser Pro Arg Leu Asp Cys Thr Gly Leu Asn Leu Leu Ser
      20      25      30
Ser Ser Asp Arg Pro Thr Ser Ala Ser Pro Val Ala Gly Thr Ile Ala
      35      40      45
Val Gln His His Ala Trp Leu Ile Phe *
      50      55      57

```

<210> 2009
 <211> 46
 <212> PRT
 <213> Homo sapiens

```

<400> 2009
Met Leu Met Tyr Met Phe Tyr Val Leu Pro Phe Cys Gly Leu Ala Ala
 1      5      10      15
Tyr Ala Leu Thr Phe Pro Gly Cys Ser Trp Leu Pro Asp Trp Ala Leu
      20      25      30
Val Phe Ala Gly Gly Ile Gly Gln Ala Gln Phe Ser His Met
      35      40      45 46

```

<210> 2010
 <211> 235
 <212> PRT
 <213> Homo sapiens

```

<400> 2010
Met Glu Leu Gly Cys Trp Thr Gln Leu Gly Leu Thr Phe Leu Gln Leu
 1      5      10      15
Leu Leu Ile Ser Leu Pro Arg Glu Tyr Thr Val Ile Asn Glu Ala
      20      25      30
Cys Pro Gly Ala Glu Trp Asn Ile Met Cys Arg Glu Cys Cys Glu Tyr

```

```

      35      40      45
Asp Gln Ile Glu Cys Val Cys Pro Gly Lys Arg Glu Val Val Gly Tyr
   50      55      60
Thr Ile Pro Cys Cys Arg Asn Glu Glu Asn Glu Cys Asp Ser Cys Leu
   65      70      75      80
Ile His Pro Gly Cys Thr Ile Phe Glu Asn Cys Lys Ser Cys Arg Asn
      85      90      95
Gly Ser Trp Gly Gly Thr Leu Asp Asp Phe Tyr Val Lys Gly Phe Tyr
      100      105      110
Cys Ala Glu Cys Arg Ala Gly Trp Tyr Gly Gly Asp Cys Met Arg Cys
      115      120      125
Gly Gln Val Leu Arg Ala Pro Lys Gly Gln Ile Leu Leu Glu Ser Tyr
      130      135      140
Pro Leu Asn Ala His Cys Glu Trp Thr Ile His Ala Lys Pro Gly Phe
      145      150      155      160
Val Ile Gln Leu Arg Phe Val Met Leu Ser Leu Glu Phe Asp Tyr Met
      165      170      175
Cys Gln Tyr Asp Tyr Val Glu Gly Cys Asp Gly Asp Asn Arg Asp Gly
      180      185      190
His Ile Ile Lys Arg Val Cys Gly Asn Glu Arg Ala Ala Pro Ile His
      195      200      205
Asn Ile Arg Ile Leu Thr Ser Arg Pro Phe Pro Leu Pro Gly Leu Ser
      210      215      220
Lys Ile Leu Thr Gly Phe His Ala Pro Phe *
      225      230      234

```

<210> 2011
 <211> 61
 <212> PRT
 <213> Homo sapiens

```

      <400> 2011
Met Val Phe Ala Trp Gly Leu Ala Val Asn Lys Thr Ser Leu Val Pro
   1      5      10      15
Ile Phe Met Asp Leu Ser Leu Ala Gly Lys Ile Tyr Ile Lys Gln Arg
      20      25      30
Met Arg Met Glu Glu Asn Leu Leu Gly Asp Asn Glu Val Lys Glu Glu
      35      40      45
Lys Asp Gln Ala Val Lys Trp Gln Thr Leu Arg Trp *
      50      55      60

```

<210> 2012
 <211> 107
 <212> PRT
 <213> Homo sapiens

```

      <400> 2012
Met Ile Arg Cys Gly Leu Ala Cys Glu Arg Cys Arg Trp Phe Leu Thr
   1      5      10      15
Leu Leu Leu Leu Ser Ala Ile Ala Phe Asp Ile Ile Ala Leu Ala Gly
      20      25      30
Arg Gly Trp Leu Gln Ser Ser Asp Arg Val Gln Thr Ser Ser Leu Trp
      35      40      45

```

```

Arg Arg Cys Phe Leu Pro Gln Gly Arg Arg Arg Arg Gln Arg Val Leu
  50          55          60
Arg Gly Arg Leu Pro Gln Pro His Gly Val Arg Val Gly Ser Ser Ser
  65          70          75          80
Ala Ala Met Leu Phe Trp Gly Val Ser Ile Leu Glu Ile Cys Phe Ile
          85          90          95
Leu Ser Phe Phe Val Leu Cys Val Pro Gln Ile
          100          105          107

```

<210> 2013
 <211> 67
 <212> PRT
 <213> Homo sapiens

```

<400> 2013
Met Gly Val Val Leu Tyr Val Leu Val Cys Gly Ala Leu Pro Phe Asp
  1          5          10          15
Gly Pro Thr Leu Pro Ile Leu Arg Gln Arg Val Leu Gly Arg Lys Ile
          20          25          30
Pro Asp Ser Val Phe His Val Arg Arg Leu Arg Ala Pro Tyr Pro Lys
          35          40          45
Asp Val Gly Pro Arg Pro Ile Gln Thr Ala Asn His Ser Pro Asn Gln
  50          55          60
Gly Ala *
  65  66

```

<210> 2014
 <211> 59
 <212> PRT
 <213> Homo sapiens

```

<400> 2014
Met Phe Leu Arg Phe Pro Leu Arg Phe Gly Ile Leu Ala Asp Lys Leu
  1          5          10          15
Ile Leu Tyr Lys Ala Ser His Phe Thr Met Leu Ser Val Pro Gly Leu
          20          25          30
Tyr Leu Ser Thr Leu Leu Glu Gly Ile Phe Ile Leu Lys Lys Leu Ser
          35          40          45
Phe Met Arg Arg Met Gly Val His Ala Thr *
  50          55          58

```

<210> 2015
 <211> 55
 <212> PRT
 <213> Homo sapiens

```

<400> 2015
Met Val Arg Leu Gln Val Leu Val Leu Val Phe Arg Val Val Gly Ser
  1          5          10          15
Gln Gln Met Leu Arg Gln Gly Ala Ala Gly Ala Arg Ser His Arg Val

```

```

          20          25          30
Leu Ala Ser Leu His Phe Gln His Gly Phe Gly Thr Phe His Thr Pro
          35          40          45
Ala Arg Ala Gly Gly Ser Glu
          50          55

```

<210> 2016
 <211> 64
 <212> PRT
 <213> Homo sapiens

```

    <400> 2016
Met Ser Leu Arg Phe Cys Phe Cys Leu Pro Val Cys Pro Ser Leu Pro
  1          5          10          15
Ile Ser Val Phe His Val Phe Leu Ser Val Ser Asp His Pro Val Ser
          20          25          30
Leu Cys Leu Thr Val Ser Gly His Glu Met Ser Val Ile Val Ala Arg
          35          40          45
Phe Thr Leu Ser Leu Tyr Leu Phe Pro Leu Arg Ser Gly Ile Ser *
          50          55          60          63

```

<210> 2017
 <211> 58
 <212> PRT
 <213> Homo sapiens

```

    <400> 2017
Met Ile Leu Leu Leu Ser Thr Phe Phe Cys Cys Phe Arg Glu Asp Ser
  1          5          10          15
Cys Phe Tyr Lys Lys Tyr Val Gly Leu Val Gln Trp Leu Met Pro Val
          20          25          30
Ile Pro Ala Leu Trp Glu Ala Lys Val Gly Gly Ser Leu Glu Val Trp
          35          40          45
Ser Ser Arg Pro Ala Trp Pro Ile Arg *
          50          55          57

```

<210> 2018
 <211> 66
 <212> PRT
 <213> Homo sapiens

```

    <400> 2018
Met Leu His Ile Ser Ser Ala Phe His Cys Tyr Ala Phe Leu Pro Leu
  1          5          10          15
Phe Ala Leu Thr His Asn Phe Ile Phe Leu Phe Tyr Leu Leu Ser Leu
          20          25          30
Ser Pro Lys Leu Glu Cys Lys Phe Gln Glu Gly Arg Asp Phe Tyr Leu
          35          40          45
Phe Phe Phe Val Phe Pro Ile Phe Trp His Val Trp His Arg Lys Gly
          50          55          60

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PATENT COOPERATION TREATY

PCT

DECLARATION OF NON-ESTABLISHMENT OF INTERNATIONAL SEARCH REPORT

(PCT Article 17(2)(a), Rule 13ter.1(c) and 39)

Applicant's or agent's file reference 21272-018	IMPORTANT DECLARATION	Date of mailing (day/month/year) 87 JUN 2001
International application No. PCT/US01/02687	International filing date (day/month/year) 25 January 2001 (25.01.2001)	(Earliest) Priority date (day/month/year) 25 January 2000 (25.01.2000)
International Patent Classification (IPC) or both national classification and IPC IPC(7): C12P 21/06 and US Cl.: 435/69.1		
Applicant HYSEQ. INC.		

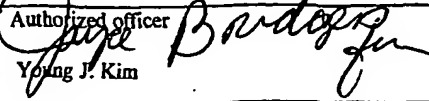
This International Searching Authority hereby declares, according to Article 17(2)(a), that no international search report will be established on the international application for the reasons indicated below.

1. ☐ The subject matter of the international application relates to:
 - a. ☐ scientific theories.
 - b. ☐ mathematical theories
 - c. ☐ plant varieties.
 - d. ☐ animal varieties.
 - e. ☐ essential biological processes for the production of plants and animals, other than microbiological processes and the products of such processes.
 - f. ☐ schemes, rules or methods of doing business.
 - g. ☐ schemes, rules or methods of performing purely mental acts.
 - h. ☐ schemes, rules or methods of playing games.
 - i. ☐ methods for treatment of the human body by surgery or therapy.
 - j. ☐ methods for treatment of the animal body by surgery or therapy.
 - k. ☐ diagnostic methods practised on the human or animal body.
 - l. ☐ mere presentations of information.
 - m. ☐ computer programs for which this International Searching Authority is not equipped to search prior art.
2. ☒ The failure of the following parts of the international application to comply with prescribed requirements prevents a meaningful search from being carried out:

☐ the description
☒ the claims
☐ the drawings
3. ☒ The failure of the nucleotide and/or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions prevents a meaningful search from being carried out:

☐ the written form has not been furnished or does not comply with the standard.
☒ the computer readable form has not been furnished or does not comply with the standard.
4. Further comments:

Name and mailing address of the ISA/US
 Commissioner of Patents and Trademarks
 Box PCT
 Washington, D.C. 20231

Authorized officer

 Young J. Kim

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